

## Tables

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Table 1. The Colorado Model Content Standards and Subcontent Areas.....	105
Table 2. Configuration of 2007 CSAP Assessments .....	107
Table 3. Configuration of 2007 CSAP Reading Assessments by Grade, Content Standard, Subcontent Area, and Item Type.....	108
Table 4. Configuration of 2007 CSAP Writing Assessments by Grade, Content Standard, Subcontent Area, and Item Type.....	109
Table 5. Configuration of 2007 CSAP Mathematics Assessments by Grade, Content Standard, Subcontent Area, and Item Type .....	110
Table 6. Configuration of 2007 CSAP Science Assessments by Grade, Content Standard, Subcontent Area, and Item Type.....	111
Table 7. DIF and Fit Flags for Previously Administered Items Selected for 2007 Test Forms.....	112
Table 8. Lowest and Highest Obtainable Scale Scores for the CSAP Assessments.....	114
Table 9. Rater Reliability Statistics -- Mathematics .....	115
Table 10. Rater Reliability Statistics -- Reading .....	118
Table 11. Rater Reliability Statistics -- Writing .....	121
Table 12. Rater Reliability Statistics -- Science.....	124
Table 13. Rater Reliability Statistics – Spanish Reading.....	126
Table 14. Rater Reliability Statistics – Spanish Writing.....	127
Table 15. Rater Severity Study Results.....	128
Table 16. Tested Population Demographic Distribution - Mathematics.....	131
Table 17. Tested Population Demographic Distribution - Reading.....	132
Table 18. Tested Population Demographic Distribution - Writing.....	133
Table 19. Tested Population Demographic Distribution – Science.....	134
Table 20. Tested Population Demographic Distribution – Spanish Reading and Writing ..	135

---

Table 21. Multiple-Choice Item Analyses, English Grade 3 Reading.....	136
Table 22. Constructed-Response Item Analyses, English Grade 3 Reading.....	136
Table 23. Multiple-Choice Item Analyses, Spanish Grade 3 Reading.....	137
Table 24. Constructed-Response Item Analyses, Spanish Grade 3 Reading.....	137
Table 25. Multiple-Choice Item Analyses, English Grade 3 Writing.....	138
Table 26. Constructed-Response Item Analyses, English Grade 3 Writing .....	138
Table 27. Multiple-Choice Item Analyses, Spanish Grade 3 Writing.....	139
Table 28. Constructed-Response Item Analyses, Spanish Grade 3 Writing.....	139
Table 29. Multiple-Choice Item Analyses, English Grade 3 Mathematics.....	140
Table 30. Constructed-Response Item Analyses, English Grade 3 Mathematics.....	140
Table 31. Multiple-Choice Item Analyses, English Grade 4 Reading.....	141
Table 32. Constructed-Response Item Analyses, English Grade 4 Reading.....	142
Table 33. Multiple-Choice Item Analyses, Spanish Grade 4 Reading.....	143
Table 34. Constructed-Response Item Analyses, Spanish Grade 4 Reading.....	144
Table 35. Multiple-Choice Item Analyses, English Grade 4 Writing.....	145
Table 36. Constructed-Response Item Analyses, English Grade 4 Writing .....	145
Table 37. Multiple-Choice Item Analyses, Spanish Grade 4 Writing.....	146
Table 38. Constructed-Response Item Analyses, Spanish Grade 4 Writing.....	146
Table 39. Multiple-Choice Item Analyses, English Grade 4 Mathematics.....	147
Table 40. Constructed-Response Item Analyses, English Grade 4 Mathematics.....	148
Table 41. Multiple-Choice Item Analyses, English Grade 5 Reading.....	149
Table 42. Constructed-Response Item Analyses, English Grade 5 Reading.....	150
Table 43. Multiple-Choice Item Analyses, English Grade 5 Writing.....	151
Table 44. Constructed-Response Item Analyses, English Grade 5 Writing .....	151
Table 45. Multiple-Choice Item Analyses, English Grade 5 Mathematics.....	152

---

Table 46. Constructed-Response Item Analyses, English Grade 5 Mathematics .....	153
Table 47. Multiple-Choice Item Analyses, English Grade 5 Science .....	154
Table 48. Constructed-Response Item Analyses, English Grade 5 Science .....	155
Table 49. Multiple-Choice Item Analyses, English Grade 6 Reading .....	156
Table 50. Constructed-Response Item Analyses, English Grade 6 Reading .....	157
Table 51. Multiple-Choice Item Analyses, English Grade 6 Writing.....	158
Table 52. Constructed-Response Item Analyses, English Grade 6 Writing.....	158
Table 53. Multiple-Choice Item Analyses, English Grade 6 Mathematics .....	159
Table 54. Constructed-Response Item Analyses, English Grade 6 Mathematics .....	159
Table 55. Multiple-Choice Item Analyses, English Grade 7 Reading .....	160
Table 56. Constructed-Response Item Analyses, English Grade 7 Reading .....	161
Table 57. Multiple-Choice Item Analyses, English Grade 7 Writing.....	162
Table 58. Constructed-Response Item Analyses, English Grade 7 Writing.....	162
Table 59. Multiple-Choice Item Analyses, English Grade 7 Mathematics .....	163
Table 60. Constructed-Response Item Analyses, English Grade 7 Mathematics .....	163
Table 61. Multiple-Choice Item Analyses, English Grade 8 Reading .....	164
Table 62. Constructed-Response Item Analyses, English Grade 8 Reading .....	165
Table 63. Multiple-Choice Item Analyses, English Grade 8 Writing.....	166
Table 64. Constructed-Response Item Analyses, English Grade 8 Writing.....	166
Table 65. Multiple-Choice Item Analyses, English Grade 8 Mathematics .....	167
Table 66. Constructed-Response Item Analyses, English Grade 8 Mathematics .....	167
Table 67. Multiple-Choice Item Analyses, English Grade 8 Science .....	168
Table 68. Constructed-Response Item Analyses, English Grade 8 Science .....	169
Table 69. Multiple-Choice Item Analyses, English Grade 9 Reading .....	170
Table 70. Constructed-Response Item Analyses, English Grade 9 Reading .....	171

---

---

Table 71. Multiple-Choice Item Analyses, English Grade 9 Writing .....	172
Table 72. Constructed-Response Item Analyses, English Grade 9 Writing .....	172
Table 73. Multiple-Choice Item Analyses, English Grade 9 Mathematics .....	173
Table 74. Constructed-Response Item Analyses, English Grade 9 Mathematics .....	173
Table 75. Multiple-Choice Item Analyses, English Grade 10 Reading .....	174
Table 76. Constructed-Response Item Analyses, English Grade 10 Reading .....	175
Table 77. Multiple-Choice Item Analyses, English Grade 10 Writing .....	176
Table 78. Constructed-Response Item Analyses, English Grade 10 Writing .....	176
Table 79. Multiple-Choice Item Analyses, English Grade 10 Mathematics .....	177
Table 80. Constructed-Response Item Analyses, English Grade 10 Mathematics .....	177
Table 81. Multiple-Choice Item Analyses, English Grade 10 Science .....	178
Table 82. Constructed-Response Item Analyses, English Grade 10 Science .....	179
Table 83. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 English Reading .....	180
Table 84. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 English Reading .....	180
Table 85. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Spanish Reading .....	181
Table 86. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Spanish Reading .....	181
Table 87. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 English Writing .....	182
Table 88. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 English Writing .....	183
Table 89. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Spanish Writing .....	184
Table 90. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Spanish Writing .....	185

---

Table 91. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 English Mathematics .....	186
Table 92. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 English Mathematics .....	186
Table 93. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 English Reading.....	187
Table 94. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 English Reading .....	188
Table 95. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Spanish Reading.....	189
Table 96. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Spanish Reading .....	190
Table 97. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 English Writing .....	191
Table 98. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 English Writing .....	192
Table 99. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Spanish Writing .....	193
Table 100. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Spanish Writing .....	194
Table 101. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 English Mathematics .....	195
Table 102. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 English Mathematics .....	196
Table 103. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Reading.....	197
Table 104. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 English Reading .....	198
Table 105. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Writing .....	199
Table 106. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 English Writing .....	200

---

---

Table 107. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Mathematics .....	201
Table 108. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 English Mathematics.....	202
Table 109. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Science.....	203
Table 110 Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 English Science .....	204
Table 111. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 English Reading .....	205
Table 112. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 English Reading .....	206
Table 113. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 English Writing .....	207
Table 114. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 English Writing.....	208
Table 115. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 English Mathematics .....	209
Table 116. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 English Mathematics.....	210
Table 117. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 English Reading .....	211
Table 118. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 English Reading .....	212
Table 119. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 English Writing .....	213
Table 120. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 English Writing.....	214
Table 121. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 English Mathematics .....	215
Table 122. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 English Mathematics.....	216

---

Table 123. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 English Reading.....	217
Table 124. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 English Reading .....	218
Table 125. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 English Writing .....	219
Table 126. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 English Writing .....	220
Table 127. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 English Mathematics.....	221
Table 128. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 English Mathematics .....	222
Table 129. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 English Science .....	223
Table 130. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 English Science.....	224
Table 131. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 English Reading.....	225
Table 132. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 English Reading .....	226
Table 133. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 English Writing .....	227
Table 134. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 English Writing .....	228
Table 135. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 English Mathematics.....	229
Table 136. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 English Mathematics .....	230
Table 137. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 English Reading.....	231
Table 138. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 English Reading .....	232

---

Table 139. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 English Writing .....	233
Table 140. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 English Writing.....	234
Table 141. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 English Mathematics .....	235
Table 142. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 English Mathematics.....	236
Table 143. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 English Science.....	237
Table 144. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 English Science .....	238
Table 145. Correlations Between the Reference and New Form Item Parameters for the 2007 CSAP Administration .....	239
Table 146. Scaling Constants Across Grades and Content Areas for Two Administrations	240
Table 147. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading .....	241
Table 148. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Mathematics .....	243
Table 149. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Writing .....	246
Table 150. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Science.....	248
Table 151. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading & Writing Spanish.....	249
Table 152. Scale Score Descriptive Statistics by Gender.....	250
Table 153. Scale Score Descriptive Statistics by Content Standard.....	251
Table 154. Scale Score Descriptive Statistics by Subcontent Area .....	252
Table 155. Raw Score Descriptive Statistics by Content Standard .....	253
Table 156. Raw Score Descriptive Statistics by Subcontent Area.....	254
Table 157. Reading 3 Scale Score Distribution .....	256



---

Table 158. Spanish Reading 3 Scale Score Distribution .....	260
Table 159. Writing 3 Scale Score Distribution .....	262
Table 160. Spanish Writing 3 Scale Score Distribution .....	265
Table 161. Mathematics 3 Scale Score Distribution .....	268
Table 162. Reading 4 Scale Score Distribution .....	272
Table 163. Spanish Reading 4 Scale Score Distribution .....	276
Table 164. Writing 4 Scale Score Distribution .....	277
Table 165. Spanish Writing 4 Scale Score Distribution .....	280
Table 166. Mathematics 4 Scale Score Distribution .....	281
Table 167. Reading 5 Scale Score Distribution .....	285
Table 168. Writing 5 Scale Score Distribution .....	289
Table 169. Mathematics 5 Scale Score Distribution .....	292
Table 170. Science 5 Scale Score Distribution .....	296
Table 171. Reading 6 Scale Score Distribution .....	299
Table 172. Writing 6 Scale Score Distribution .....	303
Table 173. Mathematics 6 Scale Score Distribution .....	307
Table 174. Reading 7 Scale Score Distribution .....	311
Table 175. Writing 7 Scale Score Distribution .....	315
Table 176. Mathematics 7 Scale Score Distribution .....	319
Table 177. Reading 8 Scale Score Distribution .....	323
Table 178. Writing 8 Scale Score Distribution .....	327
Table 179. Mathematics 8 Scale Score Distribution .....	331
Table 180. Science 8 Scale Score Distribution .....	335
Table 181. Reading 9 Scale Score Distribution .....	338
Table 182. Writing 9 Scale Score Distribution .....	341

---

---

Table 183. Mathematics 9 Scale Score Distribution .....	345
Table 184. Reading 10 Scale Score Distribution .....	349
Table 185. Writing 10 Scale Score Distribution .....	353
Table 186. Mathematics 10 Scale Score Distribution .....	358
Table 187. Science 10 Scale Score Distribution.....	361
Table 188. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 3.....	364
Table 189. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 4.....	364
Table 190. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 5.....	364
Table 191. Scale Score Correlations by Content Standard and Subcontent Area Reading Grade 6.....	365
Table 192. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 7.....	365
Table 193. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 8.....	365
Table 194. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 9.....	366
Table 195. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 10.....	366
Table 196. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 3.....	367
Table 197. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 4.....	367
Table 198. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 5.....	367
Table 199. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 6.....	368
Table 200. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 7.....	368

---

---

Table 201. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 8 .....	368
Table 202. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 9 .....	369
Table 203. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 10 .....	369
Table 204. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 3 .....	370
Table 205. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 4 .....	370
Table 206. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 5 .....	370
Table 207. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 6 .....	371
Table 208. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 7 .....	371
Table 209. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 8 .....	371
Table 210. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 9 .....	372
Table 211. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 10 .....	372
Table 212. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 5 .....	373
Table 213. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 8 .....	373
Table 214. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 10 .....	373
Table 215. Scale Score Correlations by Content Standard and Subcontent Area, Spanish Reading Grade 3 .....	374
Table 216. Scale Score Correlations by Content Standard and Subcontent Area, Spanish Reading Grade 4 .....	374

---

Table 217. Scale Score Correlations by Content Standard and Subcontent Area, Spanish Writing Grade 3 .....	375
Table 218. WR Scale Score Correlations by Content Standard and Subcontent Area, Spanish Writing Grade 4.....	375
Table 219. Cronbach Alpha Reliability Coefficients for Content Standards .....	376
Table 220. Cronbach Alpha Reliability Coefficients for Subcontent Areas.....	377
Table 221. Subgroup Reliability for the CSAP Mathematics Tests .....	378
Table 222. Subgroup Reliability for the CSAP Reading Tests .....	382
Table 223. Subgroup Reliability for the CSAP Writing Tests .....	386
Table 224. Subgroup Reliability for the CSAP Science Tests.....	390
Table 225. Subgroup Reliability for the CSAP Spanish Reading Tests .....	392
Table 226. Subgroup Reliability for the CSAP Spanish Writing Tests .....	393
Table 227. Scale Scores by Accommodation and Disability Classification .....	394
Table 228. Overall Estimates of Standard Error of Measurement .....	396
Table 229. Reading Scale Scores and Associated Standard Errors.....	397
Table 230. Writing Scale Scores and Associated Standard Errors.....	398
Table 231. Spanish Reading and Writing Scale Scores and Associated Standard Errors	399
Table 232. Mathematics Scale Scores and Associated Standard Errors.....	400
Table 233. Science Scale Scores and Associated Standard Errors .....	401
Table 234. Cut Scores for the 2007 CSAP Tests .....	402
Table 235. Alignment Summary, Reading & Writing.....	403
Table 236. Alignment Summary, Mathematics .....	404
Table 237. Alignment Summary, Science.....	405
Table 238. Alignment Summary, Spanish Reading & Writing.....	405
Table 239. Items Flagged for DIF by Ethnicity Focal Group .....	406
Table 240. Items Flagged for DIF by Gender Focal Group,.....	407

---

Table 241. Items Flagged for DIF by Accommodations Focal Group .....	408
Table 242. Items Flagged for DIF by Primary Disability State Focal Group .....	412
Table 243. Items Flagged for DIF by Enrollment Focal Group .....	416
Table 244. Items Flagged for DIF by Language Proficiency Focal Group .....	419
Table 245. Items Flagged for DIF by Education Plan Focal Group .....	430
Table 246. Items Flagged for DIF by Homeless, Immigrant, and Migrant Focal Groups...	432
Table 247. Inter-correlation among Content Areas (Scale Scores) .....	437
Table 248. Inter-correlation among Content Areas (Percentile Ranks) .....	438
Table 249. Inter-correlation with Demographic Variables.....	439
Table 250. Predictive Validity Coefficients .....	440
Table 251. Classification Consistency and Classification Accuracy for Mathematics Grade 3	441
Table 252. Classification Consistency and Classification Accuracy for Mathematics Grade 4	442
Table 253. Classification Consistency and Classification Accuracy for Mathematics Grade 5	443
Table 254. Classification Consistency and Classification Accuracy for Mathematics Grade 6	444
Table 255. Classification Consistency and Classification Accuracy for Mathematics Grade 7	445
Table 256. Classification Consistency and Classification Accuracy for Mathematics Grade 8	446
Table 257. Classification Consistency and Classification Accuracy for Mathematics Grade 9	447
Table 258. Classification Consistency and Classification Accuracy for Mathematics Grade 10 .....	448
Table 259. Classification Consistency and Classification Accuracy for Reading Grade 3.	449
Table 260. Classification Consistency and Classification Accuracy for Reading Grade 4.	450
Table 261. Classification Consistency and Classification Accuracy for Reading Grade 5.	451
Table 262. Classification Consistency and Classification Accuracy for Reading Grade 6.	452
Table 263. Classification Consistency and Classification Accuracy for Reading Grade 7.	453
Table 264. Classification Consistency and Classification Accuracy for Reading Grade 8.	454
Table 265. Classification Consistency and Classification Accuracy for Reading Grade 9.	455

---

---

Table 266. Classification Consistency and Classification Accuracy for Reading Grade 10	456
Table 267. Classification Consistency and Classification Accuracy for Science Grade 5.	457
Table 268. Classification Consistency and Classification Accuracy for Science Grade 8.	458
Table 269. Classification Consistency and Classification Accuracy for Science Grade 10	459
Table 270. Classification Consistency and Classification Accuracy for Writing Grade 3 ..	460
Table 271. Classification Consistency and Classification Accuracy for Writing Grade 4 ..	461
Table 272. Classification Consistency and Classification Accuracy for Writing Grade 5 ..	462
Table 273. Classification Consistency and Classification Accuracy for Writing Grade 6 ..	463
Table 274. Classification Consistency and Classification Accuracy for Writing Grade 7 ..	464
Table 275. Classification Consistency and Classification Accuracy for Writing Grade 8 ..	465
Table 276. Classification Consistency and Classification Accuracy for Writing Grade 9 ..	466
Table 277. Classification Consistency and Classification Accuracy for Writing Grade 10	467
Table 278. Classification Consistency and Classification Accuracy for Spanish Reading Grade 3.....	468
Table 279. Classification Consistency and Classification Accuracy for Spanish Reading Grade 4.....	469
Table 280. Classification Consistency and Classification Accuracy for Spanish Writing Grade 3.....	470
Table 281. Classification Consistency and Classification Accuracy for Spanish Writing Grade 4.....	471
Table 282. Mean and Median Scale Scores by Year for Writing Subcontent Areas: Paragraph Writing and Extended Writing.....	472

<b>Table 1. The Colorado Model Content Standards and Subcontent Areas</b>		
<b>Reading</b>		
<b>Content Standards</b>		
CS	Grades	
1	3-10	Reading Comprehension
4	4-10	Thinking Skills
5	4-10	Use of Literary Information
6	4-10	Literature
<b>Subcontent Areas</b>		
SA	Grades	
1	7-10	Fiction
2	3-10	Nonfiction
3	3-10	Vocabulary
4	7-10	Poetry
1/4	3-6	Fiction and Poetry
<b>Writing</b>		
<b>Content Standards</b>		
CS	Grades	
2	3-10	Write for a Variety of Purposes
3	3-10	Write Using Conventions
<b>Subcontent Areas</b>		
SA	Grades	
5	3-10	Paragraph Writing
6	4-10	Extended Writing
7	3-10	Grammar and Usage
8	3-10	Mechanics
<b>Mathematics</b>		
<b>Content Standards</b>		
CS	Grades	
1	3-6	Number Sense
2	4-10	Algebra, Patterns, and Functions
2/3	3	Algebra, Patterns, and Functions & Statistics and Probability
3	4-10	Statistics and Probability
4/5	3-10	Geometry and Measurement
6	3-6	Computational Techniques
1/6	7-10	Number Sense and Computational Techniques

<b>Table 1. The Colorado Model Content Standards and Subcontent Areas (Concluded)</b>		
<b>Mathematics (Continued)</b>		
<b>Subcontent Areas</b>		
SA	Grades	
1	4-6	Number and Operational Sense
1	7	Number Sense
1	8	Linear Pattern Representation
1	9	Multiple Representations of Linear/Nonlinear Functions
1	10	Multiple Representations of Functions
2	4-6	Patterns
2	7	Area and Perimeter Relationships
2	8-9	Proportional Thinking
2	10	Probability and Counting Techniques
3	4	Measurement
3	5	Data Displays
3	6 and 8	Geometry
<b>Science</b>		
<b>Content Standards</b>		
CS	Grades	
1/6	5, 8, and 10	Scientific Investigations and Connections Among Scientific Disciplines
2/5	5, 8, and 10	Physical Science and Its Interrelationship with Technology and Human Activity
3/5	5, 8, and 10	Life Science and Its Interrelationship with Technology and Human Activity
4/5	5, 8, and 10	Earth and Space Science and Its Interrelationship with Technology and Human Activity
<b>Subcontent Areas</b>		
SA	Grades	
1	5, 8, and 10	Experimental Design & Investigations
2	5, 8, and 10	Results & Data Analysis
3	8 and 10	Physics Concepts
4	8 and 10	Chemistry Concepts
5	8 and 10	Earth Science



**Table 2. Configuration of 2007 CSAP Assessments**

Content Area	Grade	Maximum Possible Points	Total # of Items			Frequency of CR Items with the Given Number of Maximum Points			
			MC	CR	Total	1	2	3	4
Reading	3	52	32	8	40	0	5	2	1
Reading	4	91	56	14	70	0	8	5	1
Reading	5	91	56	14	70	0	7	7	0
Reading	6	91	56	14	70	0	7	7	0
Reading	7	91	56	14	70	0	7	7	0
Reading	8	91	56	14	70	0	8	5	1
Reading	9	95	56	14	70	0	3	11	0
Reading* <sup>1</sup>	10	94	55	14	69	0	4	9	1
Writing	3	56	35	18	53	15	3	0	0
Writing	4	69	40	13	53	7	1	0	5
Writing	5	69	40	13	53	7	1	0	5
Writing	6	69	40	13	53	7	1	0	5
Writing	7	69	40	13	53	7	1	0	5
Writing	8	69	40	13	53	7	1	0	5
Writing* <sup>1</sup>	9	68	39	13	52	7	1	0	5
Writing	10	69	40	13	53	7	1	0	5
Spanish Reading	3	52	32	8	40	0	4	4	0
Spanish Reading	4	91	56	14	70	0	7	7	0
Spanish Writing	3	56	35	18	53	15	3	0	0
Spanish Writing	4	69	40	13	53	7	1	0	5
Mathematics	3	50	32	8	40	0	6	2	0
Mathematics	4	96	54	15	69	0	6	6	3
Mathematics	5	96	54	15	69	0	6	6	3
Mathematics	6	87	45	15	60	0	6	6	3
Mathematics* <sup>1</sup>	7	86	44	15	59	0	6	6	3
Mathematics	8	87	45	15	60	0	6	6	3
Mathematics	9	87	45	15	60	0	6	6	3
Mathematics * <sup>1</sup>	10	86	44	15	59	0	6	6	3
Science* <sup>2</sup>	5	86	55	18	73	5	13	0	0
Science* <sup>2</sup>	8	98	58	23	81	8	14	0	1
Science	10	100	60	23	83	8	14	0	1

\*Content area in which item(s) were removed from calibration. Count shown in this table does not include removed items.

<sup>1</sup> 1 MC item removed

<sup>2</sup> 2 MC items removed

**Table 3. Configuration of 2007 CSAP Reading Assessments by Grade, Content Standard, Subcontent Area, and Item Type**

Grade	Content Area	Item Type	Content Standard								Subcontent Area									
			1		4		5		6		1		1/4		2		3		4	
			No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Reading	MC	32	32									11	11	11	11	10	10		
		CR	8	20									4	9	4	11				
4	Reading	MC	23	23	9	9	16	16	8	8			20	20	10	10	10	10		
		CR	6	14	3	9	1	2	4	10			9	24	4	9				
5	Reading	MC	18	18	20	20	12	12	6	6			20	20	14	14	10	10		
		CR	5	13			3	8	6	14			7	17	4	10				
6	Reading	MC	17	17	18	18	12	12	9	9			15	15	18	18	11	11		
		CR	5	14	1	2	3	8	5	11			4	9	7	18				
7	Reading	MC	15	15	16	16	15	15	10	10	16	16			8	8	10	10	7	7
		CR	6	16	2	4	2	5	4	10	6	16			3	7			3	7
8	Reading	MC	19	19	12	12	13	13	12	12	15	15			13	13	10	10	5	5
		CR	5	12	3	8	2	7	4	8	5	11			5	12			2	5
9	Reading	MC	15	15	12	12	18	18	11	11	9	9			11	11	10	10	8	8
		CR	6	17	3	9	1	3	4	10	2	5			8	23			3	8
10	Reading <sup>1</sup>	MC	15	15	10	10	18	18	12	12	15	15			8	8	10	10	4	4
		CR	6	17	4	11	1	3	3	8	6	17			5	13			2	6
3	Spanish Reading	MC	32	32									13	13	7	7	12	12		
		CR	8	20									5	11	3	9				
4	Spanish Reading	MC	27	27	11	11	10	10	8	8			18	18	17	17	11	11		
		CR	4	10	3	7	3	8	4	10			8	20	3	7				

<sup>1</sup> Removed one MC item from calibration in CS6 –SA1

**Table 4. Configuration of 2007 CSAP Writing Assessments by Grade, Content Standard, Subcontent Area, and Item Type**

Grade	Content Area	Item Type	Content Standard				Subcontent Area							
			2		3		5		6		7		8	
			No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Writing	MC	12	12	23	23	5	5			12	12	11	11
		CR	9	12	9	9	12	15			3	3	3	3
4	Writing	MC	15	15	25	25	8	8			19	19	6	6
		CR	6	21	7	8	3	12	4	11	3	3	3	3
5	Writing	MC	15	15	25	25	10	10			20	20	9	9
		CR	6	21	7	8	3	12	4	11	1	1	5	5
6	Writing	MC	15	15	25	25	6	6			24	24	8	8
		CR	6	21	7	8	3	12	4	11	1	1	5	5
7	Writing	MC	15	15	25	25	6	6			18	18	14	14
		CR	6	21	7	8	3	12	4	11	3	3	3	3
8	Writing	MC	15	15	25	25	6	6			17	17	12	12
		CR	6	21	7	8	3	12	4	11	2	2	4	4
9	Writing <sup>1</sup>	MC	15	15	24	24	8	8			15	15	12	12
		CR	6	21	7	8	3	12	4	11	2	2	4	4
10	Writing	MC	15	15	25	25	7	7			18	18	8	8
		CR	6	21	7	8	3	12	4	11	3	3	3	3
3	Spanish Writing	MC	12	12	23	23					17	17	7	7
		CR	9	12	9	9	12	15			3	3	3	3
4	Spanish Writing	MC	13	13	27	27	6	6			15	15	12	12
		CR	6	21	7	8	3	12	4	11	4	4	2	2

<sup>1</sup> Removed one MC item from calibration in CS3 --SA7

**Table 5. Configuration of 2007 CSAP Mathematics Assessments by Grade, Content Standard, Subcontent Area, and Item Type**

Grade	Content Area	Item Type	Content Standard														Subcontent Area					
			1		1/6		2		2/3		3		4/5		6		1		2		3	
			No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Mathematics	MC	6	6					9	9			12	12	5	5						
		CR	2	4					2	4			2	5	2	5						
4	Mathematics	MC	9	9			7	7			9	9	17	17	12	12	7	7	5	5	8	8
		CR	3	10			4	10			2	5	4	12	2	5	4	13	4	10	1	3
5	Mathematics	MC	14	14			8	8			7	7	12	12	13	13	12	12	3	3	3	3
		CR	2	5			4	11			4	12	3	9	2	5	2	6	4	11	4	12
6	Mathematics	MC	10	10			7	7			7	7	12	12	9	9	8	8	5	5	6	6
		CR	2	7			3	10			4	11	4	10	2	4	4	11	3	10	4	10
7	Mathematics <sup>1</sup>	MC			14	14	9	9			9	9	12	12			4	4	3	3		
		CR			4	11	3	8			3	9	5	14			3	7	3	9		
8	Mathematics	MC			11	11	11	11			9	9	14	14			4	4	9	9	6	6
		CR			4	11	4	11			3	8	4	12			3	9	4	11	2	7
9	Mathematics	MC			11	11	12	12			11	11	11	11			4	4	5	5		
		CR			3	7	5	14			4	11	3	10			5	16	4	11		
10	Mathematics <sup>2</sup>	MC			11	11	12	12			11	11	10	10			4	4	5	5		
		CR			2	5	5	14			4	11	4	12			4	12	1	2		

<sup>1</sup> Removed one MC item from calibration in CS1/6—SA1<sup>2</sup> Removed one MC item from calibration in CS1/6—no SA

**Table 6. Configuration of 2007 CSAP Science Assessments by Grade, Content Standard, Subcontent Area, and Item Type**

Grade	Content Area	Item Type	Content Standard							
			1/6		2/5		3/5		4/5	
			No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
5	Science <sup>1</sup>	MC	23	23	11	11	10	10	11	11
		CR	8	13	3	4	4	8	3	6
8	Science <sup>2</sup>	MC	22	22	12	12	12	12	12	12
		CR	10	17	4	8	5	8	4	7
10	Science	MC	22	22	13	13	12	12	13	13
		CR	10	16	4	8	4	8	5	8

<sup>1</sup> Removed two MC items from calibration in Grade 5 Science: CS1/6, SA2 and CS2/5

<sup>2</sup> Removed two MC items from calibration in Grade 8 Science: CS1/6, SA1 and CS4/5, SA5

Grade	Content Area	Item Type	Subcontent Area									
			1		2		3		4		5	
			No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
5	Science <sup>1</sup>	MC	13	13	10	10						
		CR	4	7	4	6						
8	Science <sup>2</sup>	MC	9	9	12	12	4	4	8	8	8	8
		CR	4	6	5	9	3	6	1	2	3	5
10	Science	MC	14	14	7	7	5	5	8	8	6	6
		CR	4	5	6	11	2	4	1	2	3	6

<sup>1</sup> Removed two MC items from calibration in Grade 5 Science: CS1/6, SA2 and CS2/5

<sup>2</sup> Removed two MC items from calibration in Grade 8 Science: CS1/6, SA1 and CS4/5, SA5

**Table 7. DIF and Fit Flags for Previously Administered Items Selected for 2007 Test Forms**

Language	Content Area	Grade	Item Type	2007 Item	2007 Anchor	Year Flagged	DIF Flag	Fit Flag
English	Reading	3	MC	31	*	2005	0	1
English	Reading	5	MC	106	*	2005	0	1
English	Reading	6	CR	40		2005	0	1
English	Reading	7	MC	13	*	2005	0	1
English	Reading	7	MC	108	*	2005	0	1
English	Reading	7	MC	113	*	2004	0	1
English	Reading	8	CR	30		2005	E	0
English	Reading	8	CR	90		2005	G	0
English	Reading	8	MC	100	*	2005	0	1
English	Reading	8	MC	104		2003	E	0
English	Reading	10	CR	31		2003	G	0
English	Reading	10	CR	33		2003	G	0
English	Reading	10	CR	33		2005	G	0
English	Reading	10	CR	116		2003	G	0
English	Reading	10	CR	116		2005	G	0
English	Math	4	CR	9		2005	E	0
English	Math	6	CR	12		2003	0	1
English	Math	6	CR	12		2005	0	1
English	Math	6	CR	51		2003	E	0
English	Math	7	MC	26	*	2003	0	1
English	Math	7	MC	26	*	2005	0	1
English	Math	7	CR	35		2005	0	1
English	Math	7	CR	49		2005	E	0
English	Math	8	CR	2		2005	E	0
English	Math	8	MC	5	*	2005	0	1
English	Math	8	CR	7		2003	0	1
English	Math	8	CR	7		2005	0	1
English	Math	8	MC	27	*	2003	0	1
English	Math	8	MC	27	*	2005	E	1
English	Math	8	MC	32		2003	0	1
English	Math	8	CR	40		2005	E	0
English	Math	8	CR	44		2005	0	1
English	Math	8	CR	48		2003	E	0
English	Math	8	CR	53		2003	0	1
English	Math	9	CR	30		2005	0	1
English	Math	9	CR	54		2003	0	1
English	Math	9	CR	54		2005	0	1
English	Math	10	MC	14	*	2005	0	1
English	Math	10	MC	26		2005	0	1
English	Math	10	CR	40		2003	0	1
English	Math	10	CR	48		2005	0	1
English	Math	10	CR	52		2003	0	1
English	Math	10	CR	52		2005	0	1
English	Math	10	CR	54		2005	0	1

**Table 7. DIF and Fit Flags for Previously Administered Items Selected for 2007 Test Forms (Concluded)**

Language	Content Area	Grade	Item Type	2007 Item	2007 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Writing	4	CR	51		2005	0	1
English	Writing	4	CR	65		2003	E	0
English	Writing	4	CR	65		2005	G	0
English	Writing	5	CR	3A		2005	0	1
English	Writing	5	CR	116		2003	0	1
English	Writing	6	CR	116		2003	G	1
English	Writing	7	CR	3A		2005	0	1
English	Writing	7	CR	91		2005	0	1
English	Writing	8	MC	70	*	2005	E	0
English	Writing	8	CR	88		2005	0	1
English	Writing	10	CR	93		2005	0	1
Spanish	Reading	3	MC	7	*	2004	0	1
Spanish	Reading	3	CR	26		2002	0	1
Spanish	Reading	3	CR	26		2003	0	1
Spanish	Reading	3	CR	26		2006	0	1
Spanish	Reading	4	MC	15	*	2005	0	1
Spanish	Reading	4	MC	23	*	2004	0	1
Spanish	Reading	4	MC	26		2003	0	1
Spanish	Reading	4	MC	28	*	2005	0	1
Spanish	Reading	4	CR	44		2004	0	1
Spanish	Reading	4	MC	48		2004	0	1
Spanish	Reading	4	MC	92		2003	0	1
Spanish	Reading	4	MC	92		2004	0	1
Spanish	Reading	4	MC	94		2003	0	1
Spanish	Reading	4	MC	107	*	2005	0	1
Spanish	Reading	4	MC	113		2004	0	1
Spanish	Writing	3	MC	34		2004	0	1
Spanish	Writing	4	CR	3A		2005	0	1
Spanish	Writing	4	MC	52	*	2005	0	1
Spanish	Writing	4	MC	55	*	2005	0	1
Spanish	Writing	4	MC	61		2005	0	1
Spanish	Writing	4	MC	65	*	2005	G	0
Spanish	Writing	4	MC	71	*	2004	0	1
Spanish	Writing	4	MC	74		2004	0	1
Spanish	Writing	4	MC	76		2005	0	1
Spanish	Writing	4	MC	79		2004	0	1
Spanish	Writing	4	MC	85		2004	0	1

\* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

**Table 8. Lowest and Highest Obtainable Scale Scores for the CSAP Assessments**

Grade	Content Area	LOSS	HOSS
3	Reading	150	795
4	Reading	180	940
5	Reading	220	955
6	Reading	260	970
7	Reading	300	980
8	Reading	330	990
9	Reading	350	995
10	Reading	370	999
3	Spanish Reading	300	740
4	Spanish Reading	300	790
3	Writing	150	680
4	Writing	190	730
5	Writing	220	780
6	Writing	230	840
7	Writing	240	890
8	Writing	250	910
9	Writing	260	930
10	Writing	270	950
3	Spanish Writing	250	750
4	Spanish Writing	300	790
3	Mathematics	150	700
4	Mathematics	180	780
5	Mathematics	220	800
6	Mathematics	240	830
7	Mathematics	280	860
8	Mathematics	310	890
9	Mathematics	340	920
10	Mathematics	370	950
5	Science	300	790
8	Science	300	790
10	Science	300	790



**Table 9. Rater Reliability Statistics -- Mathematics**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	6	2888	2	0.88	0.88	0.94	0.93	0.94	93.8	4.5	98.3
3	10	2889	2	1.43	1.42	0.65	0.65	0.95	96.1	4.0	100.0
3	14	2884	2	1.13	1.14	0.83	0.84	0.88	87.7	11.0	98.8
3	20	2874	3	2.11	2.08	0.84	0.86	0.85	81.2	17.9	99.1
3	31	2885	2	1.33	1.33	0.83	0.83	0.95	94.4	5.3	99.7
3	34	2883	2	1.22	1.22	0.74	0.75	0.92	91.1	8.8	99.9
3	38	2874	2	1.54	1.54	0.63	0.64	0.93	94.6	5.2	99.8
3	40	2849	3	2.06	2.05	0.84	0.84	0.92	88.7	11.2	100.0
4	6	2858	2	1.56	1.56	0.61	0.61	0.93	95.2	4.8	100.0
4	9	2865	3	2.12	2.12	0.91	0.92	0.90	85.1	14.4	99.5
4	13	2861	2	0.89	0.89	0.87	0.87	0.87	83.4	15.9	99.3
4	14	2865	3	2.63	2.63	0.67	0.67	0.85	89.6	9.7	99.3
4	23	2862	4	2.51	2.52	0.99	0.98	0.81	74.9	21.6	96.4
4	27	2865	2	1.51	1.52	0.64	0.64	0.92	94.6	5.1	99.8
4	30	2866	3	2.48	2.48	0.91	0.92	0.90	91.0	7.1	98.0
4	38	2858	3	1.47	1.45	1.10	1.10	0.89	78.3	20.5	98.8
4	39	2853	2	1.06	1.07	0.91	0.91	0.94	92.6	7.0	99.6
4	46	2857	4	2.71	2.70	1.10	1.09	0.91	83.4	15.6	99.0
4	50	2858	2	1.06	1.07	0.56	0.57	0.83	90.7	8.8	99.5
4	56	2847	3	1.97	1.97	1.03	1.02	0.88	78.2	20.6	98.8
4	59	2859	2	1.55	1.55	0.74	0.75	0.95	96.1	3.5	99.6
4	63	2859	3	1.66	1.68	1.11	1.13	0.95	92.4	6.7	99.1
4	69	2802	4	2.62	2.63	1.45	1.45	0.94	84.4	12.5	96.9
5	3	2784	2	1.14	1.14	0.87	0.87	0.90	86.0	13.7	99.7
5	9	2786	3	1.96	1.98	0.90	0.90	0.86	80.1	19.3	99.4
5	12	2792	2	1.78	1.78	0.53	0.52	0.92	95.5	4.5	100.0
5	15	2787	3	1.77	1.76	0.99	0.98	0.84	77.0	20.9	97.9
5	23	2767	4	2.01	1.98	1.47	1.46	0.94	85.0	12.7	97.7
5	29	2778	2	1.04	1.06	0.96	0.98	0.92	87.8	11.4	99.1
5	33	2787	3	1.67	1.67	1.08	1.08	0.94	92.0	6.9	98.9
5	36	2780	2	1.45	1.48	0.91	0.93	0.92	91.3	7.4	98.7
5	44	2785	3	2.19	2.17	1.07	1.10	0.91	87.1	11.1	98.1
5	46	2790	4	2.27	2.27	1.32	1.32	0.89	77.2	19.6	96.8
5	51	2790	2	1.23	1.26	0.85	0.86	0.87	88.4	9.9	98.3
5	54	2762	3	2.29	2.28	0.93	0.93	0.83	77.9	19.9	97.8
5	57	2714	3	1.84	1.84	1.01	1.03	0.90	84.6	13.9	98.5
5	60	2500	2	1.14	1.20	0.85	0.93	0.79	82.3	14.8	97.1
5	69	2360	4	2.99	3.01	1.19	1.18	0.87	73.6	23.4	96.9

**Table 9. Rater Reliability Statistics – Mathematics (Continued)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
6	5	2809	3	2.14	2.14	0.87	0.87	0.87	83.1	16.2	99.3
6	8	2806	2	1.38	1.38	0.83	0.82	0.89	86.5	13.2	99.7
6	12	2792	2	1.11	1.10	0.84	0.84	0.90	86.4	13.4	99.9
6	16	2728	3	1.29	1.29	1.04	1.04	0.93	86.1	13.3	99.4
6	20	2799	4	3.13	3.09	1.01	1.02	0.86	76.3	22.3	98.5
6	23	2809	2	1.61	1.62	0.59	0.58	0.87	91.1	8.9	99.9
6	30	2786	3	1.43	1.44	1.04	1.04	0.91	83.7	15.2	98.9
6	33	2804	3	2.36	2.36	0.97	0.96	0.95	91.5	8.1	99.6
6	37	2797	2	1.39	1.39	0.81	0.82	0.96	95.0	4.7	99.7
6	40	2803	4	1.53	1.52	1.34	1.34	0.93	80.5	17.4	97.9
6	44	2775	2	1.10	1.11	0.83	0.83	0.79	78.1	19.5	97.6
6	46	2807	3	1.49	1.48	0.85	0.85	0.91	87.8	11.8	99.5
6	48	2797	2	0.98	0.99	0.87	0.86	0.93	90.3	9.4	99.7
6	51	2807	3	1.59	1.60	1.08	1.08	0.89	81.3	16.6	97.9
6	60	2782	4	2.53	2.53	1.25	1.25	0.84	65.1	30.8	95.9
7	3	2775	2	0.55	0.55	0.83	0.83	0.96	95.6	4.1	99.7
7	8	2831	3	1.63	1.64	1.19	1.20	0.86	70.9	25.8	96.7
7	10	2807	2	0.33	0.35	0.70	0.71	0.74	86.6	9.2	95.8
7	15	2780	3	0.69	0.69	1.01	1.01	0.93	88.0	11.0	99.0
7	20	2813	4	1.57	1.56	1.05	1.04	0.93	88.0	11.1	99.0
7	25	2820	3	0.69	0.70	0.96	0.96	0.91	87.0	11.9	98.9
7	29	2772	2	0.58	0.58	0.68	0.68	0.83	87.5	11.5	98.9
7	32	2793	2	0.64	0.64	0.89	0.89	0.89	90.1	7.3	97.5
7	35	2831	3	1.57	1.57	0.90	0.90	0.93	90.3	9.3	99.6
7	40	2822	4	1.79	1.79	1.49	1.47	0.92	78.3	18.0	96.3
7	43	2783	2	1.08	1.08	0.85	0.85	0.79	78.6	18.4	97.0
7	49	2795	3	1.66	1.67	1.24	1.24	0.91	86.8	9.7	96.5
7	53	2808	2	1.02	1.01	0.88	0.88	0.94	91.4	8.4	99.7
7	57	2820	3	2.40	2.39	0.80	0.82	0.85	83.3	15.9	99.2
7	60	2776	4	1.74	1.72	1.28	1.25	0.85	67.7	27.6	95.3
8	2	2880	2	1.09	1.10	0.87	0.86	0.90	86.5	13.1	99.6
8	7	2860	3	1.66	1.67	1.11	1.13	0.90	82.5	15.6	98.1
8	10	2832	2	0.91	0.91	0.93	0.94	0.95	91.3	8.5	99.8
8	15	2817	3	0.62	0.62	0.88	0.87	0.83	83.9	13.3	97.2
8	20	2850	4	1.21	1.23	1.13	1.14	0.90	80.1	17.7	97.8
8	25	2706	2	0.34	0.35	0.65	0.66	0.85	89.5	9.8	99.3
8	28	2858	3	1.70	1.72	0.96	0.96	0.88	80.2	19.2	99.4
8	30	2829	2	0.72	0.72	0.91	0.91	0.91	90.6	7.3	97.9
8	33	2840	3	0.85	0.85	0.91	0.91	0.96	93.8	6.0	99.8
8	40	2862	4	2.10	2.10	1.47	1.47	0.92	78.2	17.4	95.6
8	44	2877	2	1.10	1.11	0.88	0.88	0.93	91.3	8.3	99.6
8	48	2856	3	2.05	2.03	1.10	1.12	0.89	85.3	11.7	97.0
8	50	2829	2	0.81	0.83	0.94	0.94	0.92	88.2	11.2	99.4
8	53	2802	3	1.35	1.37	1.24	1.23	0.92	81.2	16.9	98.0
8	60	2619	4	2.57	2.58	1.08	1.09	0.89	81.4	16.3	97.7

**Table 9. Rater Reliability Statistics – Mathematics (Concluded)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
9	3	2986	2	0.53	0.53	0.65	0.65	0.79	82.7	17.1	99.8
9	6	2929	3	1.33	1.31	0.95	0.95	0.93	86.8	13.1	99.9
9	11	2909	2	0.46	0.46	0.82	0.82	0.92	95.1	3.0	98.2
9	15	2891	3	0.69	0.71	0.92	0.93	0.84	81.7	15.3	97.0
9	20	2913	4	1.33	1.33	1.17	1.17	0.94	86.1	13.1	99.2
9	23	2852	2	0.37	0.37	0.73	0.73	0.93	95.1	4.3	99.4
9	27	2943	3	0.97	0.95	0.99	0.99	0.95	91.4	8.1	99.5
9	30	2922	2	0.53	0.55	0.73	0.74	0.87	91.0	7.4	98.4
9	35	2979	3	1.49	1.49	0.82	0.83	0.87	86.3	12.4	98.7
9	40	2927	4	2.01	1.98	1.32	1.33	0.84	61.1	34.4	95.5
9	44	2947	2	0.43	0.44	0.80	0.80	0.91	92.9	5.8	98.6
9	48	2917	3	0.84	0.85	0.97	0.99	0.93	88.2	11.4	99.6
9	52	2813	2	0.46	0.48	0.76	0.77	0.87	88.5	10.8	99.3
9	54	2766	3	1.41	1.41	1.18	1.18	0.89	78.4	19.1	97.5
9	60	2693	4	1.39	1.39	0.87	0.86	0.75	73.1	23.5	96.6
10	4	2728	2	0.57	0.57	0.65	0.66	0.78	82.4	17.2	99.6
10	8	2671	3	0.57	0.59	0.86	0.87	0.89	85.5	13.8	99.3
10	12	2690	2	1.10	1.11	0.69	0.69	0.88	89.5	10.3	99.8
10	15	2737	3	1.98	1.96	0.97	0.97	0.89	82.0	17.2	99.2
10	20	2658	4	1.10	1.09	1.26	1.26	0.92	79.0	20.1	99.1
10	25	2621	2	0.49	0.48	0.82	0.81	0.95	94.9	4.6	99.5
10	27	2705	3	0.73	0.73	1.07	1.06	0.96	92.2	7.0	99.2
10	30	2687	2	0.89	0.90	0.72	0.72	0.88	88.8	10.7	99.5
10	35	2731	3	1.56	1.56	0.79	0.80	0.88	87.0	12.4	99.4
10	40	2692	4	1.92	1.90	1.01	1.05	0.82	73.9	22.3	96.2
10	44	2617	2	0.48	0.49	0.71	0.72	0.88	88.7	11.1	99.8
10	48	2666	3	1.03	1.05	1.15	1.14	0.90	79.5	18.8	98.3
10	52	2564	2	0.79	0.78	0.72	0.71	0.92	92.2	7.7	99.9
10	54	2613	3	0.58	0.58	0.61	0.60	0.87	91.0	8.8	99.8
10	60	2545	4	0.65	0.66	0.78	0.79	0.90	89.1	10.3	99.4

**Table 10. Rater Reliability Statistics -- Reading**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	7	2755	2	1.06	1.06	0.95	0.96	0.98	96.8	2.8	99.7
3	12	2723	4	2.54	2.54	1.38	1.38	0.84	71.1	21.9	93.0
3	15	2697	3	2.00	2.01	1.17	1.16	0.92	82.4	16.2	98.6
3	18	2668	2	1.12	1.12	0.82	0.82	0.85	83.6	15.2	98.8
3	21	2769	2	1.24	1.25	0.78	0.78	0.88	87.0	12.5	99.5
3	22	2752	2	0.78	0.78	0.74	0.75	0.84	83.9	15.5	99.4
3	27	2759	3	2.31	2.30	0.93	0.93	0.77	75.8	20.0	95.8
3	36	2737	2	0.41	0.41	0.53	0.53	0.77	88.6	10.8	99.5
4	11	2842	3	1.08	1.07	0.64	0.64	0.72	81.2	17.5	98.7
4	17	2825	3	1.04	1.04	0.73	0.73	0.78	77.7	21.9	99.6
4	18	2818	3	1.55	1.56	1.05	1.05	0.90	82.0	16.6	98.7
4	23	2822	2	0.49	0.49	0.53	0.52	0.74	85.8	14.2	100.0
4	29	2849	2	1.35	1.35	0.75	0.75	0.88	87.3	12.4	99.7
4	30	2840	2	0.84	0.85	0.72	0.72	0.83	83.7	15.9	99.7
4	40	2804	3	1.29	1.30	0.79	0.78	0.81	81.7	16.5	98.2
4	45	2747	2	0.66	0.67	0.74	0.75	0.77	78.1	20.9	99.0
4	48	2821	4	2.01	2.01	1.28	1.28	0.85	68.2	27.0	95.2
4	95	2847	2	1.58	1.58	0.68	0.68	0.87	89.4	10.3	99.7
4	96	2832	2	1.24	1.23	0.62	0.62	0.85	89.1	10.7	99.8
4	103	2836	2	1.69	1.69	0.66	0.66	0.82	88.0	10.8	98.7
4	109	2808	3	1.30	1.30	0.81	0.83	0.77	69.8	29.7	99.6
4	111	2835	2	0.64	0.67	0.72	0.74	0.83	83.0	16.6	99.6
5	8	2690	3	2.51	2.52	0.74	0.73	0.86	85.3	14.5	99.8
5	13	2715	2	0.76	0.74	0.69	0.70	0.69	73.4	25.6	99.0
5	15	2702	3	2.10	2.12	1.07	1.06	0.88	79.9	17.8	97.7
5	17	2699	3	2.07	2.07	1.14	1.15	0.84	73.2	22.3	95.6
5	24	2730	2	1.15	1.18	0.80	0.80	0.87	84.1	15.5	99.6
5	25	2713	2	1.12	1.11	0.93	0.93	0.93	89.6	9.6	99.2
5	27	2691	3	1.72	1.71	1.18	1.18	0.86	78.2	17.2	95.4
5	36	2666	3	1.35	1.33	0.80	0.81	0.71	69.4	28.2	97.5
5	38	2654	3	1.18	1.19	1.01	1.01	0.83	73.1	24.8	97.9
5	49	2617	2	1.15	1.16	0.70	0.70	0.76	80.8	18.0	98.8
5	98	2712	2	0.74	0.75	0.87	0.87	0.95	93.8	5.8	99.6
5	99	2673	3	1.34	1.34	0.88	0.90	0.87	83.3	15.6	98.9
5	104	2707	2	1.69	1.68	0.60	0.61	0.80	87.6	11.8	99.4
5	105	2647	2	1.31	1.31	0.64	0.64	0.80	85.0	14.5	99.6

**Table 10. Rater Reliability Statistics – Reading (Continued)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
6	9	2806	2	0.84	0.84	0.84	0.84	0.81	79.8	18.2	98.0
6	19	2754	3	1.98	1.99	1.21	1.21	0.94	88.2	10.4	98.5
6	20	2778	2	0.62	0.63	0.76	0.76	0.83	83.9	15.1	99.0
6	27	2815	2	1.29	1.28	0.89	0.89	0.93	90.0	9.6	99.6
6	29	2782	3	1.86	1.85	1.15	1.15	0.89	82.0	14.7	96.7
6	37	2767	3	1.34	1.33	1.11	1.10	0.86	75.1	22.3	97.4
6	38	2779	2	0.99	0.98	0.45	0.45	0.66	87.7	11.8	99.5
6	39	2771	3	1.62	1.60	1.08	1.09	0.75	63.1	30.5	93.7
6	40	2762	2	1.29	1.29	0.72	0.72	0.83	83.0	16.8	99.8
6	43	2633	3	1.15	1.15	1.02	1.03	0.85	74.9	23.1	98.0
6	55	2334	3	0.77	0.77	0.95	0.94	0.86	79.6	19.1	98.7
6	99	2789	2	0.52	0.53	0.74	0.73	0.85	86.2	13.1	99.3
6	101	2755	2	0.83	0.84	0.85	0.85	0.91	89.2	10.1	99.4
6	109	2782	3	1.58	1.60	0.97	0.99	0.74	60.8	35.7	96.4
7	4	2710	3	2.02	2.01	1.16	1.16	0.95	89.0	10.0	99.0
7	5	2749	2	0.75	0.75	0.79	0.78	0.87	87.2	11.9	99.1
7	14	2739	3	1.02	1.03	0.84	0.85	0.59	57.9	37.3	95.2
7	19	2664	3	1.00	1.02	0.92	0.94	0.73	65.7	30.6	96.3
7	23	2759	2	1.19	1.20	0.73	0.74	0.81	81.0	18.4	99.4
7	33	2780	3	1.65	1.70	1.14	1.14	0.77	78.6	9.4	88.1
7	39	2742	3	2.05	2.04	1.09	1.10	0.90	83.7	14.4	98.1
7	41	2577	2	0.72	0.77	0.79	0.81	0.74	77.9	18.6	96.6
7	42	2735	3	1.14	1.15	1.18	1.18	0.87	75.8	20.9	96.7
7	43	2701	2	1.32	1.32	0.84	0.84	0.89	87.8	11.1	98.9
7	92	2792	2	1.27	1.27	0.83	0.82	0.71	71.0	25.6	96.6
7	93	2772	2	0.95	0.97	0.81	0.82	0.81	79.4	19.3	98.7
7	94	2714	3	1.52	1.51	1.19	1.18	0.80	64.9	29.0	94.0
7	115	2629	2	0.72	0.73	0.69	0.68	0.68	79.5	17.4	96.9
8	13	2874	3	2.41	2.41	0.82	0.84	0.88	86.9	12.1	98.9
8	14	2795	3	1.96	1.97	1.13	1.12	0.92	84.7	13.5	98.2
8	24	2834	2	0.91	0.90	0.49	0.48	0.56	79.7	20.3	100.0
8	28	2812	3	1.61	1.62	0.82	0.80	0.77	71.0	28.8	99.7
8	29	2720	2	0.86	0.85	0.83	0.83	0.88	85.4	13.8	99.3
8	30	2794	3	1.58	1.55	1.25	1.24	0.87	77.7	18.6	96.3
8	38	2767	2	1.19	1.20	0.82	0.82	0.80	77.6	20.7	98.3
8	39	2737	2	1.42	1.42	0.81	0.81	0.89	88.9	10.0	98.9
8	89	2870	2	1.36	1.36	0.79	0.79	0.70	71.3	25.8	97.1
8	90	2877	2	1.06	1.07	0.80	0.81	0.79	77.1	21.7	98.8
8	91	2821	2	1.29	1.31	0.77	0.78	0.72	73.8	23.8	97.5
8	108	2749	3	1.53	1.52	0.85	0.86	0.78	72.5	26.2	98.7
8	109	2676	2	0.58	0.64	0.80	0.88	0.81	87.1	10.7	97.8
8	111	2541	4	2.62	2.61	1.13	1.12	0.84	74.5	20.8	95.4

**Table 10. Rater Reliability Statistics – Reading (Concluded)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
9	5	2956	3	1.86	1.88	1.20	1.20	0.87	78.7	17.9	96.6
9	13	3002	3	2.48	2.48	0.79	0.79	0.92	90.1	9.7	99.8
9	14	2930	3	2.10	2.08	1.06	1.07	0.91	82.6	16.6	99.2
9	22	2802	3	1.10	1.12	1.23	1.23	0.84	80.8	13.3	94.1
9	25	2956	3	2.30	2.30	0.98	0.98	0.96	91.8	8.2	99.9
9	33	2965	2	1.10	1.10	0.72	0.72	0.80	80.3	19.4	99.7
9	42	2843	2	0.93	0.93	0.74	0.75	0.72	72.0	26.8	98.8
9	44	2913	3	1.11	1.13	0.88	0.89	0.78	74.6	22.9	97.5
9	47	2805	3	1.68	1.67	1.02	1.03	0.88	79.0	19.8	98.8
9	53	2764	3	1.51	1.51	1.09	1.10	0.90	80.0	19.0	98.9
9	100	2901	2	1.09	1.09	0.88	0.89	0.90	85.9	13.8	99.7
9	104	2889	3	1.03	1.05	0.79	0.80	0.66	64.9	32.5	97.4
9	105	2860	3	1.63	1.67	1.11	1.11	0.75	70.5	20.0	90.5
9	106	2809	3	0.89	0.91	1.01	1.02	0.66	60.5	29.9	90.4
10	7	2549	2	0.53	0.55	0.71	0.72	0.81	83.6	15.4	99.0
10	10	2545	3	1.53	1.54	0.92	0.93	0.69	60.9	35.0	95.9
10	14	2620	4	2.12	2.12	1.35	1.36	0.97	91.9	6.8	98.6
10	15	2559	2	1.01	1.01	0.74	0.74	0.98	97.8	2.2	100.0
10	31	2631	3	1.52	1.51	1.13	1.13	0.79	68.5	25.6	94.1
10	33	2625	3	1.46	1.45	0.98	0.99	0.77	68.9	27.5	96.4
10	39	2533	3	0.67	0.68	0.82	0.83	0.81	78.2	20.5	98.7
10	47	2521	2	1.11	1.12	0.90	0.90	0.92	88.5	10.9	99.5
10	50	2554	3	1.08	1.07	0.77	0.76	0.67	66.3	32.0	98.3
10	51	2544	3	1.77	1.76	1.13	1.11	0.77	73.7	16.9	90.6
10	94	2577	3	0.97	0.96	1.06	1.06	0.69	60.8	30.2	91.0
10	100	2488	2	1.14	1.11	0.71	0.71	0.73	74.6	24.9	99.5
10	105	2571	3	0.40	0.38	0.72	0.71	0.81	87.4	10.7	98.1
10	116	2562	3	2.42	2.41	0.89	0.90	0.86	79.5	19.7	99.1

**Table 11. Rater Reliability Statistics -- Writing**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	1A	2777	1	0.35	0.35	0.48	0.48	0.97	98.9	1.2	100.0
3	1B	2777	1	0.57	0.58	0.49	0.49	0.96	98.1	1.9	100.0
3	1C	2777	1	0.71	0.71	0.45	0.45	0.97	98.6	1.4	100.0
3	1D	2777	1	0.70	0.70	0.46	0.46	0.94	97.3	2.7	100.0
3	1E	2777	1	0.80	0.80	0.40	0.40	0.93	97.7	2.3	100.0
3	1F	2777	1	0.75	0.75	0.43	0.43	0.96	98.5	1.5	100.0
3	14A	2776	2	1.00	1.00	0.34	0.37	0.45	86.4	13.6	99.9
3	14B	2776	1	0.94	0.93	0.24	0.26	0.47	93.4	6.6	100.0
3	14C	2776	1	0.72	0.72	0.45	0.45	0.50	79.5	20.5	100.0
3	14D	2776	1	0.83	0.83	0.38	0.37	0.41	83.4	16.6	100.0
3	28A	2778	2	1.10	1.10	0.36	0.36	0.53	87.8	12.2	100.0
3	28B	2778	1	0.98	0.97	0.15	0.16	0.64	98.3	1.7	100.0
3	28C	2778	1	0.79	0.78	0.41	0.41	0.49	82.9	17.1	100.0
3	28D	2778	1	0.88	0.87	0.32	0.34	0.45	87.8	12.2	100.0
3	39A	2775	2	1.00	1.00	0.25	0.27	0.53	93.5	6.5	100.0
3	39B	2775	1	0.96	0.96	0.19	0.20	0.60	97.0	3.0	100.0
3	39C	2775	1	0.72	0.71	0.45	0.45	0.54	81.1	18.9	100.0
3	39D	2775	1	0.86	0.86	0.35	0.35	0.45	86.5	13.5	100.0
4	1	2874	1	0.97	0.97	0.16	0.16	0.83	99.1	0.9	100.0
4	2A	2846	1	0.62	0.62	0.49	0.48	0.94	97.0	3.0	100.0
4	2B	2845	1	0.80	0.79	0.40	0.40	0.95	98.5	1.5	100.0
4	2C	2845	1	0.50	0.52	0.50	0.50	0.90	94.8	5.2	100.0
4	2D	2845	1	0.62	0.62	0.49	0.49	0.93	96.9	3.1	100.0
4	2E	2844	1	0.32	0.33	0.47	0.47	0.91	96.2	3.8	100.0
4	2F	2845	1	0.80	0.80	0.40	0.40	0.88	96.2	3.8	100.0
4	3A	2860	4	2.48	2.48	0.81	0.82	0.70	66.5	32.0	98.5
4	3B	2860	4	2.50	2.50	0.75	0.76	0.67	66.4	32.6	98.9
4	3C	2860	2	1.88	1.88	0.33	0.33	0.50	88.9	11.1	100.0
4	51	2752	4	2.48	2.47	0.72	0.71	0.68	71.4	27.8	99.2
4	65	2845	4	2.56	2.55	0.71	0.70	0.65	67.6	31.7	99.3
4	93	2812	4	2.31	2.31	0.74	0.74	0.72	71.7	27.6	99.3
5	1	2745	1	0.99	0.99	0.11	0.11	0.76	99.5	0.6	100.0
5	2A	2720	1	0.37	0.38	0.48	0.48	0.95	97.9	2.1	100.0
5	2B	2720	1	0.43	0.43	0.50	0.50	0.97	98.4	1.6	100.0
5	2C	2720	1	0.57	0.57	0.49	0.49	0.93	96.4	3.6	100.0
5	2D	2720	1	0.58	0.59	0.49	0.49	0.86	93.0	7.0	100.0
5	2E	2720	1	0.62	0.63	0.48	0.48	0.94	97.2	2.8	100.0
5	2F	2720	1	0.38	0.39	0.49	0.49	0.93	96.7	3.3	100.0
5	3A	2730	4	2.60	2.60	0.93	0.90	0.63	63.9	31.8	95.7
5	3B	2732	4	2.66	2.64	0.80	0.79	0.70	64.9	34.0	98.8
5	3C	2732	2	1.90	1.90	0.30	0.30	0.50	90.7	9.3	100.0
5	69	2711	4	2.69	2.73	0.62	0.69	0.58	66.7	32.8	99.5
5	91	2651	4	2.55	2.54	0.73	0.74	0.72	70.8	28.9	99.6
5	116	2703	4	2.60	2.58	0.73	0.75	0.69	67.3	32.0	99.3

**Table 11. Rater Reliability Statistics – Writing (Continued)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
6	1	2869	1	0.99	0.99	0.12	0.12	0.91	99.8	0.2	100.0
6	2A	2829	1	0.79	0.79	0.41	0.41	0.96	98.6	1.4	100.0
6	2B	2830	1	0.80	0.80	0.40	0.40	0.89	96.5	3.5	100.0
6	2C	2830	1	0.51	0.51	0.50	0.50	0.97	98.3	1.7	100.0
6	2D	2830	1	0.60	0.61	0.49	0.49	0.95	97.6	2.4	100.0
6	2E	2830	1	0.73	0.73	0.44	0.44	0.95	98.1	1.9	100.0
6	2F	2830	1	0.89	0.90	0.31	0.31	0.91	98.4	1.6	100.0
6	3A	2843	4	2.55	2.56	0.69	0.68	0.65	70.3	29.0	99.3
6	3B	2844	4	2.55	2.55	0.66	0.65	0.65	71.1	28.6	99.7
6	3C	2843	2	1.93	1.93	0.27	0.26	0.46	92.5	7.4	100.0
6	77	2818	4	2.82	2.79	0.75	0.75	0.68	66.7	32.6	99.3
6	98	2783	4	2.58	2.57	0.65	0.65	0.68	74.7	24.8	99.5
6	116	2809	4	2.65	2.64	0.79	0.78	0.71	66.6	32.7	99.3
7	1	2839	1	0.99	0.98	0.12	0.13	0.74	99.2	0.8	100.0
7	2A	2804	1	0.77	0.77	0.42	0.42	0.96	98.5	1.5	100.0
7	2B	2804	1	0.74	0.74	0.44	0.44	0.95	98.0	2.0	100.0
7	2C	2804	1	0.71	0.71	0.45	0.45	0.92	96.7	3.3	100.0
7	2D	2804	1	0.55	0.55	0.50	0.50	0.95	98.2	1.8	100.0
7	2E	2804	1	0.60	0.60	0.49	0.49	0.95	98.0	1.9	100.0
7	2F	2804	1	0.44	0.44	0.50	0.50	0.96	98.1	1.9	100.0
7	3A	2811	4	2.48	2.48	0.79	0.79	0.73	72.6	26.1	98.7
7	3B	2811	4	2.53	2.53	0.65	0.67	0.60	68.3	30.8	99.1
7	3C	2811	2	1.87	1.87	0.34	0.35	0.37	85.3	14.6	99.9
7	22	2771	4	2.74	2.75	0.73	0.72	0.74	73.4	26.2	99.6
7	59	2793	4	2.58	2.60	0.72	0.72	0.70	70.3	29.3	99.6
7	91	2733	4	2.39	2.38	0.86	0.85	0.67	62.7	34.6	97.3
8	1	2941	1	0.98	0.98	0.14	0.14	0.93	99.7	0.3	100.0
8	2A	2891	1	0.77	0.77	0.42	0.43	0.89	96.1	3.9	100.0
8	2B	2891	1	0.56	0.56	0.50	0.50	0.95	97.5	2.5	100.0
8	2C	2891	1	0.56	0.55	0.50	0.50	0.90	95.2	4.8	100.0
8	2D	2891	1	0.64	0.64	0.48	0.48	0.87	93.9	6.1	100.0
8	2E	2891	1	0.43	0.43	0.50	0.50	0.96	98.0	2.0	100.0
8	2F	2891	1	0.70	0.70	0.46	0.46	0.90	95.8	4.2	100.0
8	3A	2897	4	2.79	2.78	0.70	0.72	0.59	73.3	24.1	97.3
8	3B	2898	4	2.77	2.77	0.65	0.65	0.62	69.4	30.0	99.4
8	3C	2898	2	1.86	1.87	0.35	0.34	0.41	86.2	13.8	100.0
8	21	2859	4	2.75	2.73	0.72	0.76	0.68	67.2	32.3	99.4
8	63	2855	4	2.69	2.68	0.79	0.79	0.71	66.8	32.3	99.2
8	88	2805	4	2.54	2.50	0.81	0.81	0.73	71.1	27.1	98.2



**Table 11. Rater Reliability Statistics – Writing (Concluded)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
9	1	3099	1	0.96	0.96	0.19	0.19	0.81	98.6	1.4	100.0
9	2A	2999	1	0.21	0.21	0.41	0.41	0.94	98.1	1.9	100.0
9	2B	2999	1	0.64	0.64	0.48	0.48	0.86	93.5	6.5	100.0
9	2C	2999	1	0.76	0.76	0.43	0.43	0.93	97.6	2.4	100.0
9	2D	2999	1	0.38	0.38	0.49	0.49	0.93	96.9	3.1	100.0
9	2E	2999	1	0.60	0.60	0.49	0.49	0.89	94.6	5.4	100.0
9	2F	2999	1	0.24	0.24	0.42	0.43	0.95	98.1	1.9	100.0
9	3A	3029	4	2.49	2.48	0.85	0.86	0.70	66.6	31.1	97.8
9	3B	3029	4	2.53	2.52	0.74	0.74	0.70	68.2	31.4	99.6
9	3C	3029	2	1.68	1.67	0.47	0.47	0.48	77.0	23.0	100.0
9	69	2960	4	2.70	2.71	0.77	0.76	0.70	67.6	31.8	99.3
9	97	2947	4	2.72	2.72	0.75	0.75	0.70	68.9	30.4	99.3
9	116	2972	4	2.34	2.35	0.80	0.83	0.80	73.7	26.2	99.9
10	1	2804	1	0.95	0.95	0.22	0.22	0.86	98.6	1.4	100.0
10	2A	2706	1	0.10	0.10	0.30	0.30	0.96	99.2	0.8	100.0
10	2B	2706	1	0.69	0.69	0.46	0.46	0.91	96.1	3.9	100.0
10	2C	2707	1	0.59	0.59	0.49	0.49	0.90	95.4	4.7	100.0
10	2D	2707	1	0.67	0.68	0.47	0.47	0.92	96.6	3.4	100.0
10	2E	2707	1	0.57	0.56	0.50	0.50	0.89	94.7	5.3	100.0
10	2F	2707	1	0.62	0.62	0.48	0.48	0.95	97.8	2.2	100.0
10	3A	2733	4	2.55	2.55	0.75	0.76	0.75	73.1	26.4	99.5
10	3B	2733	4	2.56	2.55	0.71	0.72	0.68	69.9	29.5	99.4
10	3C	2733	2	1.70	1.71	0.46	0.46	0.49	78.6	21.4	100.0
10	26	2612	4	2.41	2.40	0.73	0.74	0.81	81.5	18.1	99.5
10	73	2667	4	2.67	2.67	0.84	0.85	0.84	77.2	22.6	99.8
10	93	2653	4	2.25	2.26	0.81	0.81	0.77	72.5	26.9	99.4

**Table 12. Rater Reliability Statistics -- Science**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
5	4	2849	2	1.51	1.51	0.57	0.56	0.79	87.1	12.7	99.8
5	21	2841	1	0.37	0.36	0.48	0.48	0.88	94.6	5.4	100.0
5	22	2837	1	0.75	0.76	0.43	0.43	0.96	98.4	1.6	100.0
5	23	2843	2	0.98	1.00	0.72	0.72	0.76	79.2	19.5	98.7
5	24	2842	1	0.53	0.53	0.50	0.50	0.73	86.2	13.8	100.0
5	25	2835	2	1.33	1.32	0.87	0.87	0.85	86.3	10.6	96.9
5	28	2842	2	0.90	0.89	0.89	0.88	0.86	85.3	12.5	97.8
5	33	2843	1	0.42	0.41	0.49	0.49	0.67	83.7	16.3	100.0
5	37	2816	1	0.28	0.30	0.46	0.48	0.84	94.0	5.6	99.6
5	41	2838	2	0.64	0.68	0.66	0.68	0.76	82.8	15.6	98.4
5	45	2835	2	1.46	1.46	0.75	0.74	0.81	83.1	15.4	98.5
5	46	2846	2	1.56	1.57	0.58	0.59	0.92	95.5	4.1	99.7
5	53	2850	2	1.71	1.67	0.65	0.68	0.87	93.9	4.3	98.2
5	55	2819	2	0.91	0.92	0.78	0.77	0.82	81.4	17.6	99.0
5	58	2805	2	1.20	1.22	0.61	0.62	0.91	94.6	5.0	99.6
5	64	2845	2	1.75	1.72	0.50	0.53	0.76	89.5	9.8	99.3
5	68	2835	2	0.91	0.91	0.71	0.72	0.81	84.2	14.6	98.8
5	75	2616	2	0.73	0.74	0.84	0.85	0.90	87.4	12.3	99.6
8	2	2687	2	0.69	0.69	0.68	0.68	0.95	95.8	4.2	100.0
8	7	2857	2	0.84	0.83	0.58	0.57	0.82	88.9	10.9	99.8
8	19	2839	2	1.01	1.02	0.83	0.82	0.82	80.1	18.5	98.7
8	20	2823	1	0.54	0.54	0.50	0.50	0.78	89.0	11.0	100.0
8	21	2830	1	0.84	0.83	0.37	0.37	0.78	93.9	6.2	100.0
8	22	2852	4	2.62	2.60	1.33	1.33	0.82	61.4	31.3	92.7
8	23	2830	1	0.76	0.76	0.43	0.43	0.78	92.1	7.9	100.0
8	24	2827	1	0.11	0.11	0.31	0.32	0.74	94.8	5.2	100.0
8	25	2794	1	0.18	0.18	0.39	0.39	0.77	93.1	6.9	100.0
8	26	2735	2	0.55	0.55	0.87	0.87	0.98	98.2	1.3	99.6
8	31	2847	2	0.71	0.71	0.79	0.79	0.85	83.3	16.1	99.3
8	33	2789	1	0.26	0.25	0.44	0.44	0.77	91.2	8.8	100.0
8	39	2816	2	1.11	1.11	0.83	0.83	0.76	73.5	24.2	97.7
8	41	2781	2	0.55	0.56	0.72	0.72	0.91	91.0	8.8	99.7
8	49	2819	1	0.61	0.61	0.49	0.49	0.75	88.3	11.7	100.0
8	53	2838	2	1.23	1.24	0.83	0.83	0.92	89.6	10.3	99.8
8	57	2800	2	0.94	0.95	0.94	0.94	0.99	98.1	1.8	99.9
8	63	2826	2	0.49	0.49	0.67	0.67	0.78	82.0	17.6	99.5
8	66	2839	2	1.65	1.65	0.62	0.62	0.65	79.8	18.0	97.8
8	75	2849	1	0.67	0.67	0.47	0.47	0.71	87.2	12.8	100.0
8	77	2606	2	0.21	0.21	0.44	0.44	0.90	96.5	3.5	99.9
8	78	2833	2	0.82	0.82	0.71	0.71	0.83	83.9	15.7	99.7
8	80	2838	2	1.38	1.37	0.69	0.69	0.87	88.3	11.6	99.8

**Table 12. Rater Reliability Statistics – Science (Concluded)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
10	14	2530	1	0.78	0.79	0.41	0.40	0.78	92.8	7.2	100.0
10	21	2646	1	0.31	0.31	0.46	0.47	0.78	90.8	9.1	99.9
10	22	2695	4	2.63	2.61	1.31	1.32	0.90	77.8	18.5	96.3
10	23	2604	2	1.16	1.15	0.79	0.79	0.89	86.6	13.1	99.8
10	24	2627	1	0.39	0.39	0.49	0.49	0.77	89.0	11.0	100.0
10	25	2617	1	0.32	0.33	0.47	0.48	0.75	88.8	11.2	100.0
10	26	2625	2	0.47	0.47	0.64	0.64	0.92	94.6	5.0	99.7
10	27	2651	1	0.29	0.28	0.48	0.48	0.69	86.2	13.7	99.9
10	29	2684	2	0.89	0.88	0.75	0.75	0.86	85.3	14.4	99.6
10	35	2610	2	1.26	1.25	0.75	0.76	0.69	72.9	24.5	97.4
10	40	2631	2	1.40	1.32	0.74	0.78	0.65	72.4	23.2	95.6
10	42	2622	2	0.47	0.48	0.69	0.70	0.86	89.0	10.0	99.0
10	46	2675	2	0.40	0.47	0.64	0.70	0.75	87.6	9.1	96.6
10	50	2602	2	1.45	1.39	0.73	0.75	0.80	83.0	15.3	98.3
10	53	2594	1	0.65	0.63	0.49	0.50	0.74	87.7	12.2	99.9
10	58	2514	2	0.36	0.35	0.61	0.61	0.85	90.2	9.4	99.6
10	63	2340	2	0.39	0.40	0.68	0.68	0.84	88.6	10.4	98.9
10	69	2676	1	0.30	0.38	0.50	0.59	0.59	84.1	13.0	97.2
10	71	2578	2	1.34	1.28	0.68	0.71	0.80	85.3	13.1	98.4
10	74	2657	2	0.69	0.67	0.71	0.71	0.91	92.3	7.3	99.6
10	77	2575	1	0.31	0.35	0.49	0.54	0.65	84.5	14.5	99.0
10	78	2545	2	0.76	0.80	0.87	0.86	0.90	88.7	10.0	98.7
10	83	2337	2	1.20	1.20	0.59	0.59	0.92	94.4	5.6	100.0

**Table 13. Rater Reliability Statistics – Spanish Reading**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	1	300	3	1.70	1.71	1.26	1.25	0.97	94.7	5.0	99.7
3	2	297	3	1.95	1.93	1.30	1.31	0.99	96.0	3.7	99.7
3	8	299	2	1.10	1.10	0.78	0.80	0.93	91.0	9.0	100.0
3	17	295	3	1.84	1.87	1.06	1.09	0.84	71.2	26.1	97.3
3	25	298	2	1.29	1.30	0.78	0.78	0.89	89.3	10.1	99.3
3	26	296	2	0.75	0.73	0.83	0.82	0.82	85.8	10.8	96.6
3	32	298	3	1.18	1.20	0.90	0.89	0.99	98.7	1.3	100.0
3	36	299	2	1.08	1.13	0.82	0.81	0.82	78.3	21.1	99.3
4	13	45	3	1.44	1.36	1.01	1.03	0.83	64.4	35.6	100.0
4	14	44	2	0.66	0.55	0.61	0.59	0.52	72.7	25.0	97.7
4	29	46	3	2.26	2.28	1.08	1.09	0.97	93.5	6.5	100.0
4	31	45	2	0.44	0.49	0.76	0.76	0.92	91.1	8.9	100.0
4	33	46	3	0.96	0.96	0.97	0.97	0.71	80.4	8.7	89.1
4	34	46	3	1.65	1.67	1.02	1.01	0.88	76.1	23.9	100.0
4	42	44	2	0.89	0.89	0.81	0.78	0.93	90.9	9.1	100.0
4	44	41	2	1.07	1.07	0.82	0.82	0.89	85.4	14.6	100.0
4	45	41	3	1.07	1.20	0.96	1.03	0.79	58.5	41.5	100.0
4	97	46	2	1.07	1.00	0.80	0.70	0.71	73.9	23.9	97.8
4	98	46	3	1.35	1.30	1.02	1.05	0.92	89.1	8.7	97.8
4	100	46	2	0.63	0.61	0.71	0.68	0.84	84.8	15.2	100.0
4	108	45	2	1.20	1.27	0.84	0.81	0.92	88.9	11.1	100.0
4	116	45	3	1.60	1.60	0.99	0.99	0.98	95.6	4.4	100.0

**Table 14. Rater Reliability Statistics – Spanish Writing**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	4A	4	1	0.78	0.79	0.41	0.41	0.98	99.4	0.6	100.0
3	4B	5	1	0.30	0.29	0.46	0.45	0.97	98.7	1.3	100.0
3	4C	6	1	0.64	0.63	0.48	0.48	0.95	97.5	2.5	100.0
3	4D	7	1	0.61	0.60	0.49	0.49	0.97	98.4	1.6	100.0
3	4E	8	1	0.61	0.61	0.49	0.49	0.95	97.5	2.5	100.0
3	4F	9	1	0.82	0.83	0.38	0.38	0.92	97.8	2.2	100.0
3	16A	21	2	1.27	1.25	0.61	0.62	0.67	76.1	23.6	99.7
3	16B	22	1	0.81	0.81	0.39	0.39	0.51	85.2	14.8	100.0
3	16C	23	1	0.84	0.83	0.36	0.38	0.76	93.4	6.6	100.0
3	16D	24	1	0.92	0.92	0.28	0.27	0.66	95.0	5.0	100.0
3	27A	35	2	0.90	0.90	0.71	0.70	0.72	74.8	24.5	99.4
3	27B	36	1	0.68	0.70	0.47	0.46	0.68	86.5	13.5	100.0
3	27C	37	1	0.73	0.70	0.44	0.46	0.78	91.2	8.8	100.0
3	27D	38	1	0.80	0.81	0.40	0.39	0.73	91.5	8.5	100.0
3	39A	50	2	1.22	1.25	0.58	0.61	0.50	68.4	30.4	98.7
3	39B	51	1	0.80	0.77	0.40	0.42	0.37	78.8	21.2	100.0
3	39C	52	1	0.76	0.72	0.43	0.45	0.71	88.9	11.1	100.0
3	39D	53	1	0.92	0.92	0.27	0.28	0.57	93.7	6.3	100.0
4	1	1	1	0.91	0.91	0.28	0.28	0.73	95.7	4.4	100.0
4	2A	2	1	0.93	0.93	0.25	0.25	1.00	100.0	0.0	100.0
4	2B	3	1	0.69	0.67	0.47	0.48	0.95	97.8	2.2	100.0
4	2C	4	1	0.89	0.87	0.32	0.34	0.90	97.8	2.2	100.0
4	2D	5	1	0.77	0.77	0.42	0.42	0.87	95.5	4.6	100.0
4	2E	6	1	0.64	0.71	0.48	0.46	0.85	93.3	6.7	100.0
4	2F	7	1	0.33	0.31	0.48	0.47	0.75	88.9	11.1	100.0
4	3A	8	4	2.00	1.93	1.14	1.15	0.92	79.6	20.5	100.0
4	3B	9	4	2.41	2.25	0.73	0.53	0.53	61.4	38.6	100.0
4	3C	10	2	1.39	1.39	0.54	0.49	0.30	63.6	36.4	100.0
4	25	11	4	1.54	1.59	0.96	0.91	0.90	82.6	17.4	100.0
4	63	26	4	2.13	2.07	1.13	1.06	0.90	76.1	23.9	100.0
4	90	53	4	2.13	2.20	1.01	0.84	0.62	55.6	37.8	93.3

**Table 15. Rater Severity Study Results**

Content Area	Grade	2005 Item Number	2007 Item Number	Valid N	Mean 2005	Mean 2007	Mean Difference	STD 2005	STD 2007	% Adjacent	% Precise	% Discrepant	Corr	Intra Class Corr	Weighted Kappa
Mathematics	3	20	20	986	2.14	2.10	0.04	0.84	0.83	15.42	84.38	0.20	0.88	0.94	0.88
Mathematics	3	36	38	984	1.61	1.57	0.04	0.57	0.59	4.98	94.92	0.10	0.92	0.96	0.92
Mathematics	4	56	56	969	2.06	1.99	0.07	0.93	0.98	26.42	72.03	1.55	0.82	0.91	0.82
Mathematics	4	69	69	969	2.66	2.59	0.07	1.44	1.47	13.00	83.28	3.72	0.93	0.96	0.93
Mathematics	5	3	3	982	1.14	1.15	-0.01	0.81	0.80	15.27	84.22	0.51	0.87	0.93	0.87
Mathematics	5	43	44	984	2.26	2.10	0.16	1.01	1.06	10.67	85.16	4.17	0.88	0.93	0.87
Mathematics	5	54	54	984	2.29	2.21	0.08	0.83	0.89	27.13	71.65	1.22	0.79	0.89	0.79
Mathematics	6	35	33	975	2.45	2.40	0.05	0.91	0.90	9.23	89.85	0.92	0.92	0.96	0.92
Mathematics	6	12	12	972	1.16	1.11	0.05	0.81	0.78	13.48	86.52	0.00	0.90	0.95	0.89
Mathematics	6	52	51	975	1.49	1.46	0.03	1.09	1.14	16.92	81.54	1.54	0.91	0.95	0.90
Mathematics	7	11	10	987	0.39	0.45	-0.06	0.72	0.80	12.16	84.30	3.55	0.78	0.89	0.77
Mathematics	7	40	40	990	2.11	2.18	-0.07	1.24	1.40	34.95	61.31	3.74	0.86	0.93	0.85
Mathematics	7	26	25	990	0.93	0.91	0.02	1.02	1.02	14.65	84.65	0.71	0.92	0.96	0.92
Mathematics	8	30	30	986	0.75	0.75	0.00	0.93	0.93	5.38	92.90	1.72	0.93	0.96	0.93
Mathematics	8	40	40	996	2.46	2.40	0.06	1.25	1.42	28.21	69.78	2.01	0.91	0.95	0.90
Mathematics	8	7	7	996	1.93	1.90	0.03	1.09	1.08	16.16	81.43	2.41	0.89	0.95	0.89
Mathematics	9	54	54	861	1.04	1.07	-0.03	1.11	1.09	13.70	85.83	0.46	0.93	0.97	0.93
Mathematics	9	60	60	887	0.96	0.94	0.02	0.72	0.70	18.49	80.27	1.24	0.77	0.88	0.77
Mathematics	9	32	30	911	0.47	0.45	0.02	0.67	0.67	9.00	90.01	0.99	0.85	0.93	0.85
Mathematics	10	20	20	896	0.58	0.63	-0.05	0.98	0.99	13.95	85.71	0.33	0.92	0.96	0.92
Mathematics	10	12	12	916	1.01	1.01	0.00	0.68	0.69	6.44	93.34	0.22	0.92	0.96	0.92
Mathematics	10	48	48	912	0.94	0.98	-0.04	1.08	1.09	21.82	77.19	0.99	0.89	0.94	0.89

**Table 15. Rater Severity Study Results (Continued)**

Content Area	Grade	2005 Item Number	2007 Item Number	Valid N	Mean 2005	Mean 2007	Mean Difference	STD 2005	STD 2007	% Adjacent	% Precise	% Discrepant	Corr	Intra Class Corr	Weighted Kappa
Reading	3	9	12	968	2.68	2.53	0.15	1.39	1.37	26.86	65.08	8.06	0.81	0.90	0.81
Reading	3	22	22	979	0.81	0.83	-0.02	0.75	0.73	15.93	83.66	0.41	0.84	0.92	0.84
Reading	4	94	95	985	1.53	1.55	-0.02	0.70	0.70	10.66	89.24	0.10	0.89	0.94	0.89
Reading	4	95	96	977	1.26	1.24	0.02	0.63	0.65	13.92	85.88	0.20	0.82	0.91	0.82
Reading	5	106	105	984	1.28	1.31	-0.03	0.60	0.61	14.43	85.37	0.20	0.79	0.90	0.79
Reading	5	25	24	988	1.22	1.21	0.01	0.79	0.78	9.11	90.89	0.00	0.93	0.96	0.93
Reading	6	22	19	943	1.96	1.97	-0.01	1.22	1.23	6.47	93.43	0.11	0.98	0.99	0.98
Reading	6	43	39	962	1.60	1.59	0.01	1.08	1.05	32.74	60.19	7.07	0.71	0.86	0.71
Reading	7	4	4	961	2.10	2.10	0.00	1.11	1.12	8.84	90.53	0.62	0.95	0.98	0.95
Reading	7	38	43	925	1.39	1.35	0.04	0.82	0.83	9.62	89.84	0.54	0.91	0.96	0.91
Reading	8	33	39	937	1.50	1.47	0.03	0.77	0.78	9.39	90.07	0.53	0.91	0.95	0.90
Reading	8	85	90	975	0.99	0.97	0.02	0.80	0.79	17.33	82.26	0.41	0.85	0.92	0.85
Reading	9	23	22	880	1.11	1.05	0.06	1.21	1.17	14.20	75.68	10.11	0.73	0.86	0.73
Reading	9	5	5	953	1.78	1.80	-0.02	1.21	1.21	15.01	82.27	2.73	0.90	0.95	0.90
Reading	10	116	116	900	2.47	2.41	0.06	0.88	0.91	17.11	81.89	1.00	0.87	0.93	0.87
Reading	10	100	94	890	1.29	1.00	0.29	1.16	1.04	32.25	59.10	8.65	0.75	0.86	0.72
Science	8	29	31	956	0.77	0.72	0.05	0.78	0.77	16.00	83.37	0.63	0.85	0.92	0.85
Science	8	77	49	957	0.60	0.61	-0.01	0.49	0.49	10.66	89.34	0.00	0.78	0.89	0.78

**Table 15. Rater Severity Study Results (Concluded)**

Content Area	Grade	2005 Item Number	2007 Item Number	Valid N	Mean 2005	Mean 2007	Mean Difference	STD 2005	STD 2007	% Adjacent	% Precise	% Discrepant	Corr	Intra Class Corr	Weighted Kappa
Writing	3	13A	14A	987	1.11	1.00	0.11	0.45	0.37	17.22	82.57	0.20	0.51	0.74	0.49
Writing	3	13B	14B	987	0.98	0.93	0.05	0.15	0.26	6.99	93.01	0.00	0.31	0.63	0.26
Writing	3	13C	14C	987	0.90	0.75	0.15	0.30	0.44	21.88	78.12	0.00	0.32	0.63	0.28
Writing	3	13D	14D	987	0.97	0.83	0.14	0.16	0.37	14.99	85.01	0.00	0.28	0.57	0.18
Writing	4	50	51	973	2.70	2.50	0.20	0.85	0.68	34.33	64.54	1.13	0.72	0.84	0.68
Writing	5	70	69	987	2.95	2.81	0.14	0.78	0.64	33.74	66.16	0.10	0.70	0.83	0.67
Writing	6	117	116	974	2.48	2.60	-0.12	0.78	0.76	33.16	64.37	2.46	0.62	0.80	0.61
Writing	7	94	91	955	2.21	2.20	0.01	0.68	0.87	28.59	68.59	2.83	0.67	0.83	0.65
Writing	8	83	88	948	2.21	2.27	-0.06	0.71	0.89	27.95	70.68	1.37	0.75	0.86	0.73
Writing	9	117	116	943	2.27	2.28	-0.01	0.69	0.81	29.06	70.52	0.42	0.74	0.87	0.73
Writing	10	92	93	938	2.28	2.20	0.08	0.81	0.88	27.19	72.39	0.43	0.80	0.90	0.80
Sp. Reading	3	29	26	246	0.90	0.86	0.04	0.80	0.83	17.89	80.08	2.03	0.80	0.90	0.80
Sp. Reading	3	14	8	249	1.37	1.21	0.16	0.78	0.81	16.47	83.13	0.40	0.88	0.93	0.86
Sp. Reading	4	28	29	252	2.37	2.34	0.03	0.98	1.01	11.51	88.49	0.00	0.94	0.97	0.94
Sp. Writing	3	31A	16A	257	1.39	1.34	0.05	0.58	0.59	23.74	75.88	0.39	0.63	0.81	0.62
Sp. Writing	3	31B	16B	257	0.76	0.81	-0.05	0.43	0.39	21.40	78.60	0.00	0.37	0.68	0.37
Sp. Writing	3	31C	16C	257	0.82	0.83	-0.01	0.38	0.38	6.23	93.77	0.00	0.78	0.89	0.78
Sp. Writing	3	31D	16D	257	0.96	0.96	0.00	0.18	0.20	0.78	99.22	0.00	0.90	0.95	0.90
Sp. Writing	4	49	25	233	2.22	1.73	0.49	1.07	1.02	44.64	48.50	6.87	0.74	0.83	0.67



**Table 16. Tested Population Demographic Distribution - Mathematics**

Subgroup	Grade							
	3	4	5	6	7	8	9	10
	N	N	N	N	N	N	N	N
No Disability	52109	50851	50864	50754	51409	52587	54820	50651
Disability	5792	5745	5838	5689	5430	5025	4984	4289
No Accommodation	46653	46138	46507	48455	50441	51592	55481	51634
Accommodation	11261	10506	10229	7997	6406	6028	4344	3335
Am. Indian/AK Nat.	672	638	697	636	711	703	727	603
Asian/Pac. Isl.	2074	2061	1972	1991	1845	1737	1857	1779
Black	3538	3241	3424	3360	3484	3552	3699	3269
Hispanic	17284	16327	15847	15417	15376	15186	15309	12709
White	34341	34373	34790	35043	35431	36441	38231	36607
Free Lunch Elig.	18563	17294	16870	16091	16002	15366	13681	10908
Reduced Lunch Elig.	4282	4221	4243	4165	4022	4033	3623	3012
Not FRL Elig.	35034	35045	35570	36161	36791	38181	42471	41003
Female	28388	27811	27712	27471	27738	28118	29280	26976
Male	29516	28826	29016	28974	29107	29502	30537	27984
Lang. Prof. NA	47111	46456	47037	47487	48185	49424	51957	48670
Lang. Prof. NEP	3083	1821	1697	1274	1121	966	1171	954
Lang. Prof. LEP	5704	5448	4597	3850	3520	3124	2822	2279
Lang. Prof. FEP	2011	2909	3397	3835	4019	4105	3868	3059
Not Mig. or Immig.	55782	55176	55331	55157	55615	56375	58577	53904
Mig. or Immig.	2119	1419	1368	1285	1221	1235	1220	1033

**Table 17. Tested Population Demographic Distribution - Reading**

Subgroup	Grade							
	3	4	5	6	7	8	9	10
	N	N	N	N	N	N	N	N
No Disability	50552	50548	50871	50664	51348	52563	54585	50413
Disability	5634	5682	5820	5648	5407	5035	4924	4255
No Accommodation	44837	44688	45564	47365	50344	51886	55536	51625
Accommodation	11359	11588	11143	8955	6421	5719	3994	3072
Am. Indian/AK Nat.	663	633	697	640	704	703	717	606
Asian/Pac. Isl.	2068	2058	1966	1983	1841	1732	1851	1769
Black	3516	3226	3433	3353	3470	3562	3654	3233
Hispanic	15677	16011	15843	15352	15341	15145	15178	12577
White	34270	34343	34766	34991	35409	36461	38126	36511
Free Lunch Elig.	17222	17008	16884	16017	15965	15327	13540	10764
Reduced Lunch Elig.	4181	4200	4244	4161	4001	4030	3604	2997
Not FRL Elig.	34742	34983	35549	36109	36768	38209	42336	40891
Female	27533	27659	27715	27422	27729	28117	29168	26874
Male	28658	28612	28989	28897	29035	29488	30355	27817
Lang. Prof. NA	47011	46407	47018	47400	48132	49444	51758	48463
Lang. Prof. NEP	2055	1568	1650	1235	1096	942	1138	931
Lang. Prof. LEP	5125	5406	4630	3850	3514	3114	2793	2270
Lang. Prof. FEP	2004	2892	3398	3829	4019	4103	3834	3026
Not Mig. or Immig.	54506	54977	55337	55045	55543	56375	58300	53650
Mig. or Immig.	1679	1250	1354	1266	1211	1219	1203	1013

**Table 18. Tested Population Demographic Distribution - Writing**

Subgroup	Grade							
	3	4	5	6	7	8	9	10
	N	N	N	N	N	N	N	N
No Disability	50599	50549	50854	50701	51340	52580	54582	50401
Disability	5643	5684	5834	5671	5419	5045	4920	4254
No Accommodation	45520	44311	45225	47766	50106	51544	55312	51507
Accommodation	10738	11968	11479	8614	6663	6089	4211	3177
Am. Indian/AK Nat.	667	633	695	636	707	700	716	607
Asian/Pac. Isl.	2073	2056	1970	1981	1841	1735	1850	1770
Black	3536	3230	3430	3366	3473	3569	3651	3227
Hispanic	15694	16017	15826	15373	15341	15153	15173	12566
White	34283	34338	34781	35023	35407	36474	38129	36513
Free Lunch Elig.	17220	17018	16869	16037	15967	15343	13536	10761
Reduced Lunch Elig.	4171	4197	4241	4159	3998	4030	3602	2997
Not FRL Elig.	34830	34979	35564	36151	36771	38220	42335	40880
Female	27567	27670	27716	27444	27716	28133	29175	26854
Male	28683	28604	28985	28935	29052	29500	30341	27824
Lang. Prof. NA	47043	46406	47025	47459	48137	49465	51752	48457
Lang. Prof. NEP	2072	1571	1652	1233	1091	944	1132	932
Lang. Prof. LEP	5142	5407	4619	3853	3517	3118	2797	2263
Lang. Prof. FEP	1994	2892	3397	3829	4019	4104	3835	3025
Not Mig. or Immig.	54572	54980	55334	55103	55549	56401	58298	53638
Mig. or Immig.	1670	1250	1354	1268	1208	1220	1198	1013

**Table 19. Tested Population Demographic Distribution – Science**

Subgroup	Grade		
	5	8	10
	N	N	N
No Disability	50892	52573	50656
Disability	5830	5048	4319
No Accommodation	47789	52396	51850
Accommodation	8948	5235	3153
Am. Indian/AK Nat.	697	702	605
Asian/Pac. Isl.	1970	1736	1776
Black	3431	3563	3276
Hispanic	15843	15147	12720
White	34793	36481	36623
Free Lunch Elig.	16877	15320	10895
Reduced Lunch Elig.	4240	4031	3017
Not FRL Elig.	35587	38234	41044
Female	27724	28121	26997
Male	29009	29505	28001
Lang. Prof. NA	47044	49469	48691
Lang. Prof. NEP	1676	956	962
Lang. Prof. LEP	4617	3116	2282
Lang. Prof. FEP	3392	4089	3058
Not Mig. or Immig.	55357	56389	53936
Mig. or Immig.	1364	1230	1034

**Table 20. Tested Population Demographic Distribution –  
Spanish Reading and Writing**

Subgroup	Spanish Reading		Spanish Writing	
	Grade		Grade	
	3	4	3	4
	N	N	N	N
No Disability	1469	261	1473	261
Disability	103	3	105	3
No Accommodation	1221	192	1216	193
Accommodation	351	72	362	71
Am. Indian/AK Nat.	1	0	1	0
Black	1	0	1	0
Hispanic	1557	262	1563	262
White	13	2	13	2
Free Lunch Elig.	1338	213	1340	213
Reduced Lunch Elig.	100	11	101	11
Not FRL Elig.	134	39	137	39
Female	789	119	794	120
Male	783	145	784	144
Lang. Prof. NA	7	1	7	1
Lang. Prof. NEP	985	220	988	220
Lang. Prof. LEP	549	41	550	41
Lang. Prof. FEP	31	2	33	2
Not Mig. or Immig.	1133	111	1143	111
Mig. or Immig.	439	153	435	153

**Table 21. Multiple-Choice Item Analyses, English Grade 3 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	1	3	0.47	0.05	0.82	23	2	1	1	0.31	0.06	0.52
2	1	1	1	0.39	0.08	0.78	24	2	1	1	0.44	0.22	0.65
3	1	1	1	0.50	0.08	0.84	25	2	1	1	0.44	0.20	0.67
4	1	1	1	0.43	0.08	0.52	26	2	1	3	0.50	0.18	0.60
5	1	1	1	0.50	0.13	0.85	28	2	1	2	0.39	0.17	0.82
6	1	1	3	0.50	0.52	0.87	29	2	1	2	0.49	0.30	0.70
8	1	1	2	0.33	0.35	0.70	30	2	1	3	0.49	0.40	0.77
9	1	1	2	0.21	0.62	0.37	31	2	1	2	0.42	0.31	0.88
10	1	1	2	0.52	0.20	0.85	32	2	1	2	0.45	0.49	0.70
11	1	1	3	0.49	0.62	0.74	33	2	1	3	0.54	0.51	0.84
13	1	1	1	0.29	0.72	0.43	34	2	1	2	0.41	0.46	0.67
14	1	1	1	0.37	0.74	0.76	35	2	1	2	0.33	0.50	0.64
16	1	1	1	0.49	1.76	0.85	37	2	1	2	0.31	1.11	0.40
17	1	1	1	0.39	1.94	0.47	38	2	1	2	0.29	0.95	0.55
19	1	1	3	0.48	2.74	0.75	39	2	1	3	0.53	0.95	0.86
20	1	1	3	0.50	2.85	0.87	40	2	1	3	0.32	1.12	0.68

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.70

**Table 22. Constructed-Response Item Analyses, English Grade 3 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
					0	1	2	3	4		
7	1	1	2	0.52	43.57	8.01	47.42			1.01	0.51
12	1	1	2	0.63	6.48	25.66	11.79	17.45	36.43	2.18	0.62
15	1	1	1	0.60	16.94	14.39	15.56	50.41		2.69	0.66
18	1	1	1	0.41	26.31	28.99	40.51			4.19	0.55
21	2	1	1	0.54	21.51	33.18	44.64			0.66	0.61
22	2	1	1	0.43	40.50	38.79	19.60			1.11	0.39
27	2	1	2	0.57	8.14	8.54	27.24	55.13		0.96	0.76
36	2	1	2	0.24	59.00	37.50	1.77			1.73	0.21

Mean Item-Total Corr.: 0.49 Mean p-Value: 0.54

**Table 23. Multiple-Choice Item Analyses, Spanish Grade 3 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
3	1	1	2	0.34	0.32	0.27	21	2	1	1	0.44	0.45	0.93
4	1	1	2	0.32	0.06	0.64	22	2	1	1	0.45	0.06	0.66
5	1	1	3	0.25	0.06	0.31	23	2	1	1	0.51	0.06	0.83
6	1	1	3	0.24	0.19	0.24	24	2	1	3	0.40	0.00	0.85
7	1	1	1	0.29	0.25	0.26	27	2	1	2	0.37	0.38	0.88
9	1	1	3	0.34	0.13	0.47	28	2	1	3	0.47	0.13	0.71
10	1	1	3	0.35	0.25	0.60	29	2	1	3	0.31	0.25	0.72
11	1	1	1	0.42	0.13	0.66	30	2	1	2	0.40	0.13	0.52
12	1	1	1	0.35	0.45	0.52	31	2	1	2	0.44	0.57	0.61
13	1	1	1	0.29	0.76	0.32	33	2	1	2	0.38	0.13	0.59
14	1	1	1	0.10	0.64	0.35	34	2	1	2	0.26	0.25	0.48
15	1	1	3	0.43	0.76	0.76	35	2	1	3	0.14	0.32	0.33
16	1	1	1	0.39	0.70	0.85	37	2	1	1	0.57	0.19	0.72
18	1	1	1	0.37	7.38	0.73	38	2	1	3	0.43	0.51	0.66
19	1	1	1	0.44	1.40	0.74	39	2	1	1	0.46	0.25	0.58
20	1	1	3	0.49	1.65	0.68	40	2	1	3	0.42	0.38	0.57

Mean Item-Total Corr.: 0.37 Mean p-Value: 0.60

**Table 24. Constructed-Response Item Analyses, Spanish Grade 3 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
					0	1	2	3	4		
1	1	1	2	0.55	28.88	10.50	21.82	37.91		0.89	0.56
2	1	1	2	0.67	25.70	7.57	11.96	53.44		1.34	0.64
8	1	1	1	0.63	27.86	33.40	38.23			0.51	0.55
17	1	1	1	0.56	18.00	21.56	23.09	35.37		1.97	0.58
25	2	1	1	0.54	18.83	28.56	52.10			0.51	0.66
26	2	1	1	0.52	49.36	22.77	27.04			0.83	0.38
32	2	1	2	0.54	26.84	34.03	31.42	7.38		0.32	0.40
36	2	1	1	0.61	30.60	31.30	37.66			0.45	0.53

Mean Item-Total Corr.: 0.58 Mean p-Value: 0.54

**Table 25. Multiple-Choice Item Analyses, English Grade 3 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
2	1	2		0.34	0.02	0.69	21	2	3	8	0.46	0.02	0.88
3	1	2		0.52	0.06	0.74	22	2	3	8	0.40	0.05	0.86
4	1	2		0.32	0.18	0.70	23	2	3	7	0.41	0.18	0.88
5	1	3	7	0.50	0.56	0.75	24	2	3	8	0.42	0.53	0.83
6	1	3	7	0.48	0.26	0.84	25	2	2	5	0.49	0.04	0.80
7	1	3	7	0.41	0.50	0.86	26	2	2	5	0.37	0.07	0.84
8	1	3	7	0.51	0.63	0.79	27	2	2	5	0.36	0.26	0.57
9	1	3	7	0.48	0.28	0.85	29	2	3	8	0.44	0.05	0.88
10	1	3	7	0.43	0.97	0.53	30	2	3	8	0.40	0.70	0.91
11	1	2		0.35	0.27	0.81	31	2	3	8	0.47	0.19	0.86
12	1	3	7	0.35	0.53	0.86	32	2	3	8	0.47	0.23	0.90
13	1	3	7	0.37	0.78	0.41	33	2	3	8	0.41	0.58	0.92
15	1	2		0.52	0.17	0.68	34	2	3	7	0.46	0.10	0.75
16	1	2		0.39	0.19	0.93	35	2	2		0.27	0.18	0.48
17	1	2	5	0.43	0.18	0.68	36	2	3	8	0.43	0.18	0.64
18	1	2	5	0.46	0.36	0.65	37	2	3	8	0.59	0.49	0.78
19	1	3	7	0.40	0.58	0.91	38	2	3	8	0.53	0.72	0.81
20	1	3	7	0.44	0.62	0.93							

Mean Item-Total Corr.: 0.43 Mean p-Value: 0.78

**Table 26. Constructed-Response Item Analyses, English Grade 3 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
1	A	1	3	8	0.43	65.66	34.22				0.12	0.34
1	B	1	3	7	0.39	41.57	58.31				0.12	0.58
1	C	1	3	7	0.45	28.55	71.33				0.12	0.71
1	D	1	3	7	0.20	29.85	70.03				0.12	0.70
1	E	1	3	8	0.38	20.22	79.66				0.12	0.80
1	F	1	3	8	0.49	24.89	74.99				0.12	0.75
14	A	1	2	5	0.45	6.46	86.55	6.71			0.29	0.50
14	B	1	2	5	0.44	6.77	92.93				0.29	0.93
14	C	1	2	5	0.57	28.23	71.48				0.29	0.71
14	D	1	3	5	0.55	17.01	82.70				0.29	0.83
28	A	2	2	5	0.39	2.68	85.14	11.99			0.19	0.55
28	B	2	2	5	0.36	2.84	96.97				0.19	0.97
28	C	2	2	5	0.55	21.74	78.07				0.19	0.78
28	D	2	3	5	0.52	13.15	86.67				0.19	0.87
39	A	2	2	5	0.38	3.24	93.24	3.22			0.31	0.50
39	B	2	2	5	0.39	3.70	95.99				0.31	0.96
39	C	2	2	5	0.56	28.51	71.19				0.31	0.71
39	D	2	3	5	0.52	13.94	85.75				0.31	0.86

Mean Item-Total Corr.: 0.45 Mean p-Value: 0.73



**Table 27. Multiple-Choice Item Analyses, Spanish Grade 3 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	3	7	0.33	0.13	0.87	21	2	3	8	0.34	0.13	0.74
2	1	3	7	0.44	0.25	0.86	22	2	3	8	0.42	0.13	0.59
3	1	3	7	0.42	0.06	0.91	23	2	3	8	0.45	0.13	0.75
5	1	3	7	0.39	0.00	0.63	24	2	3	8	0.35	0.06	0.69
6	1	3	7	0.44	0.06	0.82	25	2	3	8	0.48	0.06	0.78
7	1	3	7	0.37	0.06	0.74	26	2	3	8	0.37	0.06	0.42
8	1	3	7	0.36	0.82	0.56	28	2	3	7	0.44	0.13	0.70
9	1	3	7	0.45	1.14	0.56	29	2	3	7	0.45	0.32	0.89
10	1	3	7	0.30	0.06	0.95	30	2	3	7	0.43	0.25	0.86
11	1	3	7	0.39	0.38	0.87	31	2	3	7	0.47	0.70	0.78
12	1	3	7	0.44	0.51	0.94	32	2	3	7	0.41	0.89	0.60
13	1	2		0.41	0.19	0.76	33	2	2		0.42	1.33	0.67
14	1	2		0.33	0.57	0.80	34	2	2		0.37	0.13	0.93
15	1	2	7	0.40	0.25	0.77	35	2	2		0.38	0.32	0.94
17	1	2		0.46	0.38	0.78	36	2	2		0.50	0.57	0.71
18	1	2		0.22	0.38	0.28	37	2	2		0.40	0.44	0.53
19	1	2		0.23	0.38	0.34	38	2	2		0.36	0.57	0.78
20	2	3	8	0.43	0.00	0.65							

Mean Item-Total Corr.: 0.4 Mean p-Value: 0.73

**Table 28. Constructed-Response Item Analyses, Spanish Grade 3 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
4	A	1	3	8	0.43	20.79	79.09				0.13	0.79
4	B	1	3	7	0.37	73.26	26.62				0.13	0.27
4	C	1	3	8	0.46	36.31	63.56				0.13	0.64
4	D	1	3	8	0.44	37.39	62.48				0.13	0.62
4	E	1	3	7	0.46	42.59	57.29				0.13	0.57
4	F	1	3	7	0.33	19.77	80.10				0.13	0.80
16	A	1	2	5	0.49	9.44	54.18	36.25			0.13	0.63
16	B	1	2	5	0.43	19.26	80.61				0.13	0.81
16	C	1	2	5	0.52	17.30	82.57				0.13	0.83
16	D	1	3	5	0.43	8.56	91.32				0.13	0.91
27	A	2	2	5	0.52	26.17	50.06	23.26			0.51	0.48
27	B	2	2	5	0.54	28.90	70.60				0.51	0.71
27	C	2	2	5	0.56	25.22	74.27				0.51	0.74
27	D	2	3	5	0.50	15.27	84.22				0.51	0.84
39	A	2	2	5	0.45	7.54	59.44	32.26			0.76	0.62
39	B	2	2	5	0.47	23.07	76.17				0.76	0.76
39	C	2	2	5	0.48	26.43	72.81				0.76	0.73
39	D	2	3	5	0.34	5.83	93.41				0.76	0.93

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.7

**Table 29. Multiple-Choice Item Analyses, English Grade 3 Mathematics**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	4		0.38	7.03	0.86	21	2	4		0.34	0.10	0.83
2	1	1		0.39	0.10	0.94	22	2	6		0.29	0.17	0.35
3	1	2		0.42	2.36	0.85	23	2	6		0.47	0.61	0.68
4	1	1		0.46	0.51	0.68	24	2	1		0.49	0.22	0.55
5	1	2		0.48	0.12	0.85	25	2	4		0.37	0.44	0.85
7	1	2		0.28	0.27	0.88	26	2	4		0.55	0.11	0.53
8	1	1		0.19	0.16	0.97	27	2	6		0.41	0.53	0.93
9	1	4		0.40	0.40	0.66	28	2	2		0.28	0.09	0.95
11	1	4		0.33	0.29	0.90	29	2	4		0.31	0.57	0.95
12	1	6		0.33	0.37	0.95	30	2	6		0.42	0.99	0.61
13	1	4		0.47	0.26	0.76	32	2	1		0.49	0.35	0.84
15	1	4		0.50	0.25	0.82	33	2	4		0.39	0.31	0.88
16	1	1		0.42	0.18	0.88	35	2	2		0.39	0.13	0.93
17	1	2		0.48	0.22	0.49	36	2	4		0.43	0.15	0.92
18	1	2		0.48	0.24	0.47	37	2	2		0.57	0.16	0.81
19	1	2		0.53	0.20	0.73	39	2	4		0.49	0.39	0.77

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.78

**Table 30. Constructed-Response Item Analyses, English Grade 3 Mathematics**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
6		1	1		0.58	51.55	11.56	36.67			0.22	0.42
10		1	2		0.55	8.93	41.01	49.95			0.11	0.70
14		1	1		0.63	29.43	29.02	41.15			0.40	0.56
20		1	4		0.57	2.60	23.80	34.06	38.83		0.71	0.69
31		2	2		0.66	23.82	19.32	56.66			0.20	0.66
34		2	6		0.66	20.20	39.78	39.71			0.30	0.60
38		2	4		0.51	7.83	32.07	59.76			0.34	0.76
40		2	6		0.67	2.18	27.14	34.53	36.09		0.07	0.68

Mean Item-Total Corr.: 0.6 Mean p-Value: 0.63

**Table 31. Multiple-Choice Item Analyses, English Grade 4 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	1	3	0.30	0.07	0.84	38	4	6	1	0.41	0.59	0.85
5	3	1	1	0.44	0.12	0.64	39	4	4	1	0.29	0.45	0.34
6	3	6	1	0.43	0.11	0.65	41	4	4	2	0.52	0.25	0.71
7	3	4	1	0.49	0.21	0.71	42	4	4	2	0.48	0.56	0.72
8	3	1	1	0.40	0.80	0.49	43	4	4	2	0.38	0.85	0.45
9	3	5		0.41	1.14	0.85	44	4	4	2	0.36	0.74	0.74
10	3	6	1	0.43	0.17	0.90	46	4	5		0.33	0.53	0.71
12	3	6	3	0.54	0.43	0.71	47	4	5		0.43	0.49	0.85
13	3	5		0.16	0.36	0.25	49	4	1	1	0.38	1.35	0.41
14	3	5		0.50	0.24	0.68	50	4	1	3	0.48	1.72	0.66
15	3	5		0.41	0.26	0.55	94	6	4	1	0.46	0.51	0.82
16	3	1	1	0.46	0.84	0.63	97	6	1	1	0.33	0.10	0.77
19	3	6	1	0.48	0.29	0.72	98	6	6	1	0.31	0.20	0.67
20	3	5		0.42	0.28	0.60	99	6	1	3	0.40	0.23	0.80
21	3	1	2	0.44	0.61	0.78	100	6	6	1	0.36	0.24	0.93
22	3	1	2	0.29	0.67	0.66	101	6	5		0.44	0.55	0.56
24	3	1	2	0.45	0.74	0.55	102	6	5		0.49	0.80	0.86
25	3	1	3	0.48	0.71	0.91	104	6	1	3	0.43	0.15	0.91
26	3	1	3	0.38	0.84	0.76	105	6	1	3	0.35	0.22	0.85
27	3	5		0.53	1.71	0.67	106	6	1	3	0.49	0.43	0.74
28	3	5		0.57	1.77	0.78	107	6	5		0.51	0.15	0.80
31	4	1	1	0.31	0.15	0.58	108	6	5		0.48	0.19	0.86
32	4	1	1	0.43	0.23	0.77	110	6	1	2	0.58	0.40	0.83
33	4	1	1	0.47	0.27	0.78	112	6	1	2	0.52	0.46	0.74
34	4	1	3	0.52	0.28	0.73	113	6	1	2	0.57	0.49	0.82
35	4	4	1	0.30	0.12	0.47	114	6	5		0.48	0.87	0.75
36	4	4	1	0.40	0.30	0.70	115	6	5		0.05	0.68	0.20
37	4	6	1	0.50	0.34	0.69	116	6	5		0.47	0.79	0.60

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.70

**Table 32. Constructed-Response Item Analyses, English Grade 4 Reading**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
11		3	4	1	0.53	13.72	66.36	15.93	3.11		0.88	0.36
17		3	6	1	0.48	22.21	51.47	23.04	2.11		1.18	0.35
18		3	6	1	0.44	19.77	25.52	32.04	21.34		1.34	0.51
23		3	1	2	0.23	52.43	44.53	1.61			1.42	0.24
29		4	1	1	0.44	15.98	31.67	51.89			0.47	0.68
30		4	1	1	0.38	34.16	45.34	19.65			0.84	0.42
40		4	1	1	0.52	15.76	40.22	37.74	4.21		2.07	0.43
45		4	5		0.51	47.54	33.06	15.74			3.66	0.32
48		4	4	1	0.56	13.23	20.15	32.16	15.39	17.62	1.46	0.50
95		6	6	1	0.65	9.85	20.30	69.28			0.57	0.79
96		6	6	1	0.56	9.47	56.67	32.83			1.03	0.61
103		6	1	2	0.49	9.50	9.45	79.97			1.08	0.85
109		6	1	2	0.58	17.43	37.94	37.91	4.76		1.96	0.43
111		6	4	2	0.59	48.11	35.07	15.68			1.15	0.33

Mean Item-Total Corr.: 0.5    Mean p-Value: 0.49

**Table 33. Multiple-Choice Item Analyses, Spanish Grade 4 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	1	2	0.50	0.76	0.45	39	4	5		0.29	2.27	0.66
5	3	5		0.35	0.38	0.48	40	4	1	1	0.36	0.76	0.73
6	3	6	2	0.32	0.38	0.70	41	4	1	1	0.47	0.76	0.51
7	3	5		0.35	0.38	0.39	43	4	1	1	0.36	2.27	0.41
8	3	6	2	0.09	0.00	0.35	46	4	1	3	0.46	2.65	0.77
9	3	4	2	0.32	0.38	0.61	47	4	6	3	0.28	3.03	0.35
10	3	4	2	0.41	0.00	0.59	48	4	5		0.23	2.65	0.33
11	3	1	3	0.16	0.38	0.68	91	6	1	2	0.28	0.76	0.87
12	3	6	2	0.22	0.38	0.38	92	6	1	3	0.46	0.76	0.66
15	3	4	1	0.25	0.38	0.70	93	6	1	3	0.35	0.76	0.52
16	3	1	1	0.24	0.00	0.72	94	6	1	2	0.23	0.76	0.74
17	3	4	1	0.20	0.38	0.77	95	6	1	2	0.38	1.14	0.77
18	3	1	1	0.40	0.00	0.72	96	6	1	2	0.44	1.14	0.52
19	3	6	1	0.10	0.38	0.93	99	6	6	1	0.26	0.00	0.52
20	3	1	1	0.19	1.52	0.53	101	6	4	1	0.45	0.00	0.44
21	3	1	1	0.45	0.38	0.59	102	6	4	1	0.35	0.00	0.38
22	3	1	1	0.36	1.14	0.52	103	6	1	3	0.44	1.14	0.75
23	3	6	1	0.34	0.76	0.56	104	6	1	3	0.39	1.89	0.66
24	3	6	1	0.35	1.14	0.71	105	6	5		0.35	1.52	0.63
26	4	1	2	0.26	0.00	0.48	106	6	5		0.40	0.38	0.35
27	4	1	3	0.43	0.00	0.75	107	6	5		0.41	0.00	0.46
28	4	4	2	0.33	0.38	0.69	109	6	1	2	0.34	0.38	0.70
30	4	4	2	0.40	2.27	0.39	110	6	1	2	0.41	0.38	0.47
32	4	4	2	0.43	0.38	0.46	111	6	4	2	0.57	0.00	0.63
35	4	4	1	0.53	1.14	0.73	112	6	1	3	0.34	0.38	0.63
36	4	1	1	0.50	0.76	0.56	113	6	1	3	0.31	0.76	0.71
37	4	1	3	0.34	0.38	0.78	114	6	5		0.46	0.76	0.68
38	4	5		0.25	1.52	0.43	115	6	5		0.46	0.76	0.58

Mean Item-Total Corr.: 0.35 Mean p-Value: 0.59

**Table 34. Constructed-Response Item Analyses, Spanish Grade 4 Reading**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
13		3	1	2	0.63	24.62	27.65	32.20	13.64		1.89	0.44
14		3	5		0.34	50.76	38.64	5.30			5.30	0.25
29		4	5		0.66	12.12	14.77	17.42	54.55		1.14	0.71
31		4	4	2	0.57	68.18	14.77	14.77			2.27	0.22
33		4	6	1	0.37	40.53	35.98	12.50	9.47		1.52	0.30
34		4	1	1	0.69	32.58	21.21	20.45	24.24		1.52	0.45
42		4	1	1	0.57	53.41	28.79	12.88			4.92	0.27
44		4	6	1	0.39	26.52	31.06	35.61			6.82	0.51
45		4	4	1	0.55	28.79	27.65	25.38	9.85		8.33	0.36
97		6	4	1	0.34	43.18	37.12	17.80			1.89	0.36
98		6	6	1	0.60	33.71	34.09	20.45	9.47		2.27	0.34
100		6	6	1	0.40	52.27	36.74	10.23			0.76	0.29
108		6	1	2	0.52	25.38	26.14	47.73			0.76	0.61
116		6	5		0.38	25.76	4.92	56.82	12.12		0.38	0.52

Mean Item-Total Corr.: 0.5    Mean p-Value: 0.4

**Table 35. Multiple-Choice Item Analyses, English Grade 4 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
52	5	3	7	0.33	0.73	0.82	73	5	2	5	0.50	0.26	0.71
53	5	3	7	0.45	0.08	0.90	74	5	2	5	0.52	0.31	0.80
54	5	3	7	0.44	0.22	0.90	75	5	2		0.37	0.64	0.54
55	5	2		0.36	0.76	0.77	76	5	3	7	0.46	0.23	0.90
56	5	2		0.49	0.87	0.84	77	5	3	7	0.52	0.33	0.78
57	5	2		0.39	1.25	0.70	78	5	3	7	0.45	0.62	0.63
58	5	3	7	0.39	0.09	0.51	79	5	3	7	0.52	0.48	0.84
59	5	3	7	0.32	0.76	0.90	80	5	3	7	0.53	0.96	0.77
60	5	3	7	0.36	1.30	0.87	81	5	3	7	0.48	1.61	0.84
61	5	3	8	0.36	0.15	0.73	82	5	3	7	0.49	0.36	0.81
62	5	3	8	0.43	0.52	0.83	83	5	3	7	0.49	0.44	0.83
63	5	3	8	0.39	0.93	0.68	84	5	3	7	0.57	0.46	0.80
64	5	3	8	0.55	1.33	0.82	85	5	3	8	0.48	0.40	0.90
66	5	2	5	0.43	0.18	0.80	86	5	3	8	0.50	0.53	0.85
67	5	3	7	0.40	0.28	0.67	87	5	2	5	0.51	0.74	0.70
68	5	2	5	0.39	0.31	0.57	88	5	3	7	0.48	0.41	0.70
69	5	2		0.51	0.44	0.78	89	5	3	7	0.21	0.51	0.61
70	5	2	5	0.42	0.32	0.79	90	5	3	7	0.45	0.52	0.73
71	5	2	5	0.41	0.30	0.91	91	5	2		0.48	0.44	0.83
72	5	2	5	0.44	0.27	0.92	92	5	2		0.49	0.85	0.75

Mean Item-Total Corr.: 0.44 Mean p-Value: 0.78

**Table 36. Constructed-Response Item Analyses, English Grade 4 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
1		1	2	6	0.11	2.29	97.71				0.00	0.98
2	A	2	3	7	0.29	37.04	62.09				0.87	0.62
2	B	2	3	8	0.47	18.78	80.36				0.87	0.80
2	C	2	3	7	0.28	47.89	51.24				0.87	0.51
2	D	2	3	8	0.38	37.29	61.84				0.87	0.62
2	E	2	3	8	0.41	65.96	33.17				0.87	0.33
2	F	2	3	7	0.50	19.15	79.98				0.87	0.80
3	A	2	2	6	0.63	1.83	5.99	40.28	43.45	8.33	0.12	0.63
3	B	2	2	6	0.65	0.17	6.39	43.04	41.89	8.38	0.12	0.63
3	C	2	3	6	0.51	0.43	10.07	89.38			0.12	0.94
51		5	2	5	0.51	1.02	4.11	41.80	44.93	4.51	3.62	0.60
65		5	2	5	0.53	0.35	4.47	39.63	47.95	7.00	0.60	0.64
93		5	2	5	0.56	0.61	9.91	48.30	36.06	3.54	1.59	0.57

Mean Item-Total Corr.: 0.45 Mean p-Value: 0.67

**Table 37. Multiple-Choice Item Analyses, Spanish Grade 4 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
49	5	3	7	0.25	0.38	0.88	70	5	3	7	0.40	0.00	0.38
50	5	3	7	0.37	0.76	0.82	71	5	3	7	0.31	5.68	0.48
51	5	2		0.37	1.52	0.85	72	5	3	8	0.39	0.38	0.47
52	5	2		0.34	0.00	0.39	73	5	3	8	0.30	0.38	0.37
53	5	2		0.23	0.00	0.97	74	5	3	8	0.38	2.27	0.63
54	5	3	7	0.40	0.38	0.66	75	5	3	8	0.05	2.65	0.39
55	5	2		0.38	0.00	0.77	76	5	3	7	0.25	0.76	0.38
56	5	3	7	0.29	0.00	0.87	77	5	3	7	0.29	0.76	0.43
57	5	2	5	0.32	0.00	0.47	78	5	3	7	0.26	2.65	0.25
58	5	2	5	0.38	0.00	0.48	79	5	3	8	0.30	1.14	0.54
59	5	2	5	0.46	0.00	0.42	80	5	3	8	0.28	1.52	0.42
60	5	2	5	0.29	0.00	0.45	81	5	3	8	0.41	1.52	0.48
61	5	2	5	0.55	0.00	0.49	82	5	3	8	0.45	1.14	0.44
62	5	2	5	0.26	0.00	0.37	83	5	3	8	0.38	0.76	0.52
64	5	3	7	0.39	0.00	0.39	84	5	3	8	0.44	1.52	0.41
65	5	3	7	0.28	0.00	0.76	85	5	3	8	0.44	0.76	0.46
66	5	3	7	0.33	0.00	0.48	86	5	3	8	0.15	1.14	0.36
67	5	3	7	0.36	0.38	0.55	87	5	2		0.32	0.76	0.32
68	5	3	7	0.37	5.30	0.59	88	5	2		0.34	0.76	0.63
69	5	3	7	0.42	6.06	0.48	89	5	2		0.36	1.14	0.45

Mean Item-Total Corr.: 0.34 Mean p-Value: 0.52

**Table 38. Constructed-Response Item Analyses, Spanish Grade 4 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
1		1	2	6	0.09	5.30	94.70				0.00	0.95
2	A	2	3	7	0.30	13.26	85.98				0.76	0.86
2	B	2	3	7	0.45	36.74	62.50				0.76	0.63
2	C	2	3	7	0.36	22.35	76.89				0.76	0.77
2	D	2	3	8	0.25	28.03	71.21				0.76	0.71
2	E	2	3	7	0.49	31.06	67.80				1.14	0.68
2	F	2	3	8	0.38	70.83	28.41				0.76	0.28
3	A	2	2	6	0.55	16.67	10.98	36.74	29.55	3.41	2.65	0.47
3	B	2	2	6	0.53	0.76	13.64	46.21	32.20	4.55	2.65	0.55
3	C	2	3	6	0.45	1.14	61.36	34.85			2.65	0.66
25		5	2	5	0.51	8.71	42.05	26.52	15.15	3.79	3.79	0.39
63		5	2	5	0.56	4.55	16.67	48.48	23.86	5.30	1.14	0.52
90		5	2	5	0.32	5.68	13.26	38.64	28.03	11.36	3.03	0.55

Mean Item-Total Corr.: 0.4 Mean p-Value: 0.62



**Table 39. Multiple-Choice Item Analyses, English Grade 4 Mathematics**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	4	3	0.30	4.07	0.90	35	2	6		0.42	3.02	0.60
2	1	6		0.51	0.21	0.75	36	2	3		0.43	0.18	0.52
3	1	1	1	0.48	0.15	0.63	37	2	4		0.33	0.22	0.66
4	1	6		0.39	0.45	0.90	40	2	1	1	0.40	0.25	0.79
5	1	2		0.33	0.49	0.90	41	2	2	2	0.48	0.14	0.89
7	1	2	2	0.37	0.08	0.66	42	2	1		0.36	0.43	0.95
8	1	1		0.45	0.30	0.64	43	2	1		0.42	0.67	0.91
10	1	2	2	0.53	0.11	0.49	44	2	4		0.44	0.16	0.72
11	1	4	3	0.32	0.20	0.93	45	2	3		0.53	0.17	0.81
12	1	4	3	0.20	0.76	0.70	47	3	4	3	0.54	0.10	0.60
15	1	4		0.44	0.39	0.56	48	3	6		0.50	0.50	0.88
16	1	4	3	0.46	0.14	0.61	49	3	4		0.18	0.04	0.95
17	1	6		0.26	0.46	0.96	51	3	6		0.32	0.39	0.86
18	1	3		0.34	0.10	0.91	52	3	3		0.41	0.23	0.49
19	1	2	2	0.25	0.17	0.97	53	3	3		0.24	0.16	0.94
20	1	3		0.53	0.25	0.70	54	3	1	1	0.56	0.16	0.79
21	1	3		0.61	0.22	0.77	55	3	2		0.48	0.84	0.55
22	1	1		0.46	0.31	0.86	57	3	4		0.43	0.34	0.58
24	2	4	3	0.53	0.03	0.69	58	3	3		0.43	0.83	0.46
25	2	4	3	0.38	0.22	0.46	60	3	4		0.50	0.20	0.73
26	2	4		0.38	0.13	0.54	61	3	6		0.33	0.60	0.94
28	2	4	3	0.27	0.17	0.85	62	3	6	1	0.56	0.51	0.86
29	2	3		0.32	0.14	0.96	64	3	1	1	0.42	0.32	0.44
31	2	4		0.26	0.24	0.96	65	3	4		0.37	0.35	0.85
32	2	6	1	0.39	0.89	0.91	66	3	2	2	0.41	0.31	0.93
33	2	6		0.34	1.04	0.90	67	3	6		0.53	1.23	0.73
34	2	6		0.43	2.61	0.79	68	3	1	1	0.50	1.09	0.73

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.76

**Table 40. Constructed-Response Item Analyses, English Grade 4 Mathematics**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
6		1	6		0.60	6.66	30.43	62.74			0.17	0.78
9		1	3		0.55	5.95	19.16	32.49	42.25		0.15	0.70
13		1	3		0.52	42.34	24.12	33.23			0.31	0.45
14		1	1	1	0.49	0.94	7.58	18.39	73.05		0.05	0.88
23		1	1	1	0.53	4.99	8.34	23.29	51.28	11.84	0.26	0.64
27		2	2	2	0.43	7.99	32.45	59.45			0.10	0.76
30		2	4	3	0.53	5.43	11.43	11.66	71.37		0.11	0.83
38		2	1	1	0.70	26.89	14.33	37.49	21.02		0.28	0.51
39		2	2	2	0.68	36.70	19.76	43.07			0.48	0.53
46		2	2	2	0.66	3.37	10.51	24.52	32.30	29.13	0.17	0.68
50		3	4		0.39	13.63	66.71	19.48			0.19	0.53
56		3	6	1	0.62	11.74	19.52	28.69	39.22		0.82	0.65
59		3	2	2	0.60	14.79	15.13	69.89			0.20	0.77
63		3	4		0.62	20.07	23.94	23.96	31.94		0.10	0.56
69		3	4		0.65	13.69	9.87	21.54	10.59	44.13	0.18	0.65

Mean Item-Total Corr.: 0.57    Mean p-Value: 0.66

**Table 41. Multiple-Choice Item Analyses, English Grade 5 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	4	2	0.29	0.05	0.64	41	4	4	2	0.35	1.74	0.74
5	3	1	2	0.42	0.08	0.84	42	4	4	2	0.53	2.04	0.78
6	3	5		0.24	0.25	0.75	43	4	5		0.55	1.62	0.58
7	3	4	2	0.35	0.93	0.70	44	4	4	1	0.29	2.24	0.38
9	3	6	1	0.47	0.09	0.56	45	4	1	3	0.27	2.42	0.50
10	3	6	1	0.40	0.16	0.76	46	4	1	3	0.26	2.84	0.52
11	3	1	1	0.43	0.17	0.81	47	4	4	1	0.40	2.91	0.59
12	3	1	3	0.38	0.42	0.53	48	4	5		0.35	3.01	0.51
14	3	4	1	0.38	0.43	0.62	92	6	1	2	0.53	0.05	0.77
16	3	4	1	0.54	0.70	0.76	93	6	1	3	0.42	0.05	0.72
18	3	1	1	0.55	0.71	0.69	94	6	4	2	0.42	0.24	0.63
19	3	4	1	0.05	0.87	0.34	95	6	4	2	0.52	0.11	0.79
20	3	1	3	0.35	0.87	0.44	96	6	1	3	0.37	0.14	0.49
21	3	4	1	0.51	1.34	0.75	97	6	5		0.41	0.38	0.80
22	3	5		0.45	1.24	0.62	100	6	5		0.39	0.20	0.67
23	3	5		0.48	1.38	0.67	101	6	1	3	0.30	1.33	0.57
26	4	1	2	0.40	0.57	0.72	102	6	1	2	0.49	0.25	0.68
28	4	1	3	0.43	0.11	0.54	103	6	4	1	0.44	0.85	0.84
29	4	4	2	0.34	0.19	0.61	106	6	4	1	0.45	0.19	0.76
30	4	4	2	0.44	0.47	0.82	107	6	1	3	0.40	0.37	0.84
31	4	4	1	0.35	0.08	0.58	108	6	6	1	0.37	1.14	0.91
32	4	4	1	0.41	0.23	0.74	109	6	5		0.44	0.46	0.61
33	4	6	1	0.49	0.29	0.74	110	6	5		0.48	0.65	0.89
34	4	6	1	0.37	0.31	0.90	111	6	1	1	0.38	0.24	0.92
35	4	4	1	0.36	0.43	0.45	112	6	6	1	0.48	0.31	0.76
37	4	1	2	0.32	5.78	0.71	113	6	5		0.45	0.33	0.52
39	4	4	2	0.56	1.12	0.80	114	6	5		0.44	0.50	0.85
40	4	1	3	0.42	1.19	0.74	115	6	5		0.34	0.74	0.47

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.68

**Table 42. Constructed-Response Item Analyses, English Grade 5 Reading**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
8		3	5		0.42	2.94	5.29	29.72	60.77		1.28	0.82
13		3	6	1	0.41	38.18	46.99	13.98			0.85	0.37
15		3	6	1	0.66	12.91	13.96	22.92	49.33		0.89	0.69
17		3	1	1	0.65	17.26	12.16	16.99	52.11		1.49	0.67
24		4	1	2	0.57	24.83	33.37	41.43			0.37	0.58
25		4	5		0.63	38.52	13.05	47.59			0.84	0.54
27		4	5		0.51	25.53	10.02	29.38	33.66		1.41	0.57
36		4	1	1	0.51	14.66	40.72	35.77	7.04		1.81	0.44
38		4	6	2	0.64	31.21	30.54	23.11	12.47		2.67	0.38
49		4	6	1	0.34	15.59	48.79	31.55			4.07	0.56
98		6	1	2	0.45	52.16	18.52	28.31			1.02	0.38
99		6	1	2	0.62	17.76	39.42	30.90	10.28		1.64	0.44
104		6	6	1	0.61	6.74	15.64	76.93			0.69	0.85
105		6	6	1	0.56	9.20	49.55	40.08			1.17	0.65

Mean Item-Total Corr.: 0.54    Mean p-Value: 0.57

**Table 43. Multiple-Choice Item Analyses, English Grade 5 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
50	5	3	7	0.30	0.06	0.93	71	5	2	5	0.43	0.32	0.52
51	5	3	7	0.43	0.09	0.86	72	5	2	5	0.46	0.34	0.68
52	5	2		0.45	0.29	0.86	73	5	2	5	0.31	0.42	0.49
53	5	3	7	0.22	1.48	0.27	74	5	2	5	0.45	0.41	0.75
54	5	3	7	0.36	1.64	0.72	75	5	2	5	0.40	0.45	0.57
55	5	3	7	0.32	0.13	0.87	76	5	3	8	0.55	0.40	0.82
56	5	2	7	0.40	0.16	0.85	77	5	3	8	0.52	0.49	0.77
57	5	2	7	0.47	0.48	0.69	78	5	3	8	0.44	0.55	0.70
58	5	3	7	0.44	0.08	0.87	79	5	3	8	0.45	0.56	0.82
59	5	3	7	0.23	0.13	0.55	80	5	3	8	0.49	0.69	0.79
60	5	3	7	0.37	0.51	0.93	81	5	2	5	0.51	0.96	0.78
61	5	3	7	0.31	0.48	0.65	82	5	3	7	0.47	0.61	0.81
62	5	3	7	0.39	0.67	0.92	83	5	2	7	0.49	0.64	0.73
63	5	3	7	0.47	0.95	0.62	84	5	2	7	0.27	0.93	0.43
64	5	3	8	0.45	0.11	0.68	85	5	2	5	0.47	0.67	0.78
65	5	3	7	0.44	0.19	0.68	86	5	3	7	0.39	0.83	0.73
66	5	3	7	0.44	0.69	0.73	87	5	2	5	0.40	0.89	0.59
67	5	3	8	0.33	0.43	0.70	88	5	3	8	0.41	0.77	0.71
68	5	3	8	0.40	1.31	0.84	89	5	3	7	0.37	1.12	0.62
70	5	2	5	0.33	0.24	0.60	90	5	2	5	0.43	1.11	0.62

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.71

**Table 44. Constructed-Response Item Analyses, English Grade 5 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
1		1	2	6	0.09	0.98	99.02				0.00	0.99
2	A	2	3	7	0.35	60.97	38.33				0.71	0.38
2	B	2	3	8	0.51	56.90	42.39				0.71	0.42
2	C	2	3	8	0.39	42.06	57.23				0.71	0.57
2	D	2	3	8	0.37	39.71	59.58				0.71	0.60
2	E	2	3	8	0.51	36.73	62.56				0.71	0.63
2	F	2	3	8	0.43	60.96	38.33				0.71	0.38
3	A	2	2	6	0.63	3.63	4.90	32.39	44.22	14.69	0.17	0.65
3	B	2	2	6	0.66	0.07	6.35	34.93	43.76	14.72	0.17	0.67
3	C	2	3	6	0.48	0.17	9.13	90.53			0.17	0.95
69		5	2	5	0.49	0.17	1.39	31.47	58.95	7.09	0.93	0.67
91		5	2	5	0.57	0.57	4.53	40.41	43.22	8.38	2.88	0.62
116		5	2	5	0.56	0.41	3.61	41.85	42.40	10.74	0.99	0.64

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.63

**Table 45. Multiple-Choice Item Analyses, English Grade 5 Mathematics**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	1	1	0.29	0.84	0.85	35	2	6	1	0.53	0.15	0.74
2	1	1	1	0.34	0.26	0.41	37	2	1	1	0.47	0.40	0.77
4	1	1		0.32	0.29	0.95	38	2	6		0.48	0.99	0.81
5	1	4		0.44	0.13	0.82	39	2	3		0.44	0.23	0.55
6	1	1	1	0.49	0.42	0.85	40	2	4		0.52	0.19	0.72
7	1	6		0.35	0.32	0.84	41	2	6		0.39	0.19	0.68
8	1	1	1	0.49	0.14	0.54	42	2	6		0.50	0.41	0.83
10	1	6		0.49	0.31	0.86	43	2	4		0.36	0.68	0.62
11	1	2	2	0.48	0.28	0.80	45	2	2	2	0.57	0.27	0.59
13	1	3	3	0.42	0.07	0.87	47	3	4		0.29	0.04	0.86
14	1	6		0.41	0.19	0.56	48	3	6		0.41	0.24	0.88
16	1	3		0.42	0.39	0.36	49	3	1	1	0.28	0.03	0.97
17	1	3	3	0.47	0.39	0.77	50	3	4		0.56	0.12	0.69
18	1	4		0.31	0.56	0.67	52	3	1		0.39	0.21	0.65
19	1	2		0.50	0.48	0.66	53	3	4		0.42	0.32	0.68
20	1	2	1	0.12	0.62	0.46	55	3	4		0.41	0.60	0.37
21	1	6		0.29	1.27	0.88	56	3	4		0.35	0.48	0.79
22	1	6		0.46	0.90	0.71	58	3	4		0.47	0.09	0.64
24	2	2	2	0.31	0.04	0.91	59	3	3		0.29	0.42	0.53
25	2	6		0.31	0.18	0.93	61	3	1	1	0.40	0.13	0.63
26	2	1	1	0.51	0.24	0.72	62	3	1		0.36	0.32	0.80
27	2	1	1	0.40	0.10	0.81	63	3	6		0.43	0.40	0.82
28	2	6		0.59	0.33	0.75	64	3	1		0.49	0.95	0.79
30	2	1	1	0.49	0.21	0.55	65	3	2		0.39	0.32	0.71
31	2	3		0.44	0.14	0.88	66	3	2	3	0.57	0.22	0.60
32	2	4		0.24	0.19	0.77	67	3	3		0.50	0.27	0.68
34	2	2		0.53	0.22	0.78	68	3	4		0.44	0.40	0.51

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.72

**Table 46. Constructed-Response Item Analyses, English Grade 5 Mathematics**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
3		1	4		0.52	32.00	21.44	46.24			0.31	0.57
9		1	3	3	0.69	3.35	33.29	28.82	34.36		0.18	0.65
12		1	3	3	0.40	5.21	11.74	82.94			0.11	0.89
15		1	1	1	0.65	12.82	23.42	42.82	20.74		0.20	0.57
23		1	2	2	0.72	19.60	15.31	21.87	17.50	24.93	0.79	0.53
29		2	1		0.65	44.50	14.00	40.80			0.70	0.48
33		2	4		0.56	16.64	28.52	22.10	32.53		0.20	0.57
36		2	2	2	0.69	23.40	16.33	59.76			0.50	0.68
44		2	2	2	0.56	11.75	13.72	20.57	53.69		0.27	0.72
46		2	4		0.66	1.78	34.66	10.81	22.12	30.47	0.17	0.61
51		3	2	2	0.52	22.45	45.08	32.25			0.22	0.55
54		3	6	1	0.58	5.30	12.19	26.18	55.65		0.69	0.77
57		3	3	3	0.63	10.34	27.00	36.63	25.83		0.20	0.59
60		3	6		0.59	27.26	35.19	37.16			0.39	0.55
69		3	3	3	0.69	4.94	8.44	13.89	27.57	44.90	0.26	0.75
Mean Item-Total Corr.: 0.61					Mean p-Value: 0.63							

**Table 47. Multiple-Choice Item Analyses, English Grade 5 Science**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	1	1	0.25	0.24	0.97	39	2	1	2	0.46	0.08	0.82
2	1	3		0.39	0.04	0.71	40	2	1	2	0.44	0.25	0.63
3	1	1	1	0.17	0.07	0.83	42	2	2		0.29	0.10	0.54
5	1	3		0.25	0.05	0.63	43	2	1	2	0.47	0.20	0.66
6	1	4		0.33	0.13	0.69	44	2	1	1	0.56	0.18	0.81
7	1	2		0.45	0.05	0.63	47	2	3		0.29	0.21	0.96
8	1	1	2	0.31	0.18	0.72	48	2	3		0.34	0.26	0.77
9	1	2		0.50	0.08	0.81	49	2	1	1	0.55	0.23	0.78
10	1	2		0.37	0.06	0.67	50*	2	2		-.11	0.36	0.18
11	1	2		0.38	0.43	0.61	51	3	1	1	0.26	0.47	0.67
12	1	1	1	0.41	0.19	0.72	52	3	1	1	0.50	0.06	0.83
13	1	2		0.29	0.07	0.75	54	3	4		0.40	0.42	0.81
14	1	1	2	0.54	0.09	0.71	56	3	3		0.37	0.10	0.58
15	1	3		0.32	0.21	0.96	57	3	1	2	0.47	0.11	0.75
16	1	3		0.22	0.11	0.94	59	3	3		0.37	0.24	0.67
17	1	4		0.31	0.12	0.50	60	3	3		0.46	0.42	0.87
18	1	4		0.42	0.17	0.73	61	3	2		0.30	0.10	0.91
19	1	4		0.49	0.17	0.78	62	3	4		0.36	0.23	0.59
20	1	4		0.39	0.41	0.68	63	3	4		0.28	0.50	0.42
26	2	4		0.33	0.05	0.88	65	3	1	1	0.60	0.15	0.74
27	2	2		0.17	0.04	0.98	66	3	1	2	0.26	0.14	0.59
29	2	3		0.34	0.11	0.78	67	3	1	1	0.49	0.31	0.82
30	2	1	1	0.31	0.09	0.95	69*	3	1	2	-.04	0.15	0.18
31	2	1	1	0.31	0.06	0.92	70	3	1	2	0.50	0.14	0.71
32	2	1	2	0.26	0.16	0.97	71	3	4		0.30	0.62	0.95
34	2	2		0.33	0.31	0.64	72	3	1	2	0.36	0.07	0.54
35	2	2		0.32	0.13	0.95	73	3	1	1	0.43	0.14	0.73
36	2	2		0.47	0.11	0.89	74	3	1	1	0.50	0.24	0.58
38	2	4		0.38	0.39	0.87							

Mean Item-Total Corr.: 0.36 Mean p-Value: 0.74

\* Item removed from calibration.



**Table 48. Constructed-Response Item Analyses, English Grade 5 Science**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
4		1	4		0.44	3.44	42.66	53.69			0.21	0.75
21		1	1	2	0.47	64.72	34.86				0.42	0.35
22		1	1	1	0.45	24.95	74.60				0.45	0.75
23		1	1	1	0.42	26.28	47.22	26.07			0.43	0.50
24		1	1	2	0.46	47.54	51.93				0.53	0.52
25		1	1	2	0.45	25.57	14.79	58.94			0.70	0.66
28		2	1	1	0.61	45.47	19.78	34.50			0.26	0.44
33		2	2		0.42	58.58	41.02				0.39	0.41
37		2	2		0.34	72.11	26.68				1.21	0.27
41		2	1	2	0.45	46.10	44.89	8.51			0.50	0.31
45		2	1	1	0.62	17.06	22.36	59.95			0.63	0.71
46		2	3		0.54	4.70	35.92	59.20			0.17	0.77
53		3	3		0.37	11.44	6.51	81.90			0.15	0.85
55		3	4		0.53	35.97	36.97	26.18			0.87	0.45
58		3	4		0.60	12.24	57.47	28.58			1.71	0.57
64		3	3		0.32	2.47	18.68	78.57			0.29	0.88
68		3	3		0.49	29.77	48.66	21.29			0.28	0.46
75		3	2		0.54	51.59	22.20	25.24			0.97	0.36

Mean Item-Total Corr.: 0.47    Mean p-Value: 0.56

**Table 49. Multiple-Choice Item Analyses, English Grade 6 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	1	3	0.28	0.17	0.80	41	4	1	3	0.53	1.60	0.81
5	3	1	1	0.34	0.04	0.81	42	4	1	2	0.35	4.31	0.72
6	3	6	1	0.46	0.11	0.85	44	4	4	2	0.58	3.96	0.78
7	3	6	1	0.47	0.09	0.88	45	4	1	3	0.47	4.20	0.77
8	3	4	1	0.45	0.28	0.78	46	4	4	2	0.36	5.09	0.71
10	3	4	1	0.39	0.09	0.44	47	4	4	2	0.54	4.68	0.77
11	3	6	1	0.31	0.18	0.43	48	4	1	2	0.50	5.72	0.73
12	3	1	3	0.42	0.07	0.87	49	4	6	1	0.47	7.64	0.61
13	3	6	1	0.48	0.18	0.73	50	4	5		0.14	8.36	0.27
14	3	5		0.11	0.18	0.33	51	4	4	1	0.55	8.74	0.69
15	3	5		0.28	0.15	0.31	52	4	6	1	0.52	9.21	0.64
16	3	5		0.57	0.30	0.63	53	4	1	3	0.47	9.60	0.54
17	3	5		0.36	0.33	0.51	54	4	5		0.17	11.0	0.19
18	3	5		0.24	0.39	0.82	56	4	5		0.41	12.9	0.49
21	3	1	2	0.24	0.50	0.59	100	6	4	1	0.27	0.33	0.38
22	3	1	3	0.51	2.33	0.54	102	6	6	1	0.41	0.22	0.63
23	3	4	2	0.30	0.46	0.44	103	6	4	1	0.49	0.54	0.76
24	3	4	2	0.46	0.52	0.76	104	6	6	1	0.42	0.18	0.87
25	3	5		0.34	0.37	0.34	105	6	6	1	0.24	0.22	0.64
26	4	1	2	0.14	0.18	0.47	106	6	1	3	0.47	0.34	0.79
28	4	1	2	0.38	0.68	0.75	107	6	5		0.27	0.16	0.48
30	4	1	3	0.48	0.21	0.63	108	6	5		0.44	0.29	0.70
31	4	4	2	0.36	0.38	0.65	110	6	4	2	0.30	0.66	0.71
32	4	4	2	0.43	0.69	0.84	111	6	4	2	0.53	0.19	0.76
33	4	4	2	0.50	0.32	0.81	112	6	1	3	0.30	0.21	0.50
34	4	4	2	0.39	0.38	0.66	113	6	4	2	0.41	0.40	0.82
35	4	4	2	0.49	0.29	0.75	114	6	1	3	0.49	0.23	0.88
36	4	1	3	0.43	0.38	0.62	115	6	5		0.38	0.26	0.92

Mean Item-Total Corr.: 0.39 Mean p-Value: 0.65

**Table 50. Constructed-Response Item Analyses, English Grade 6 Reading**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
9		3	4	1	0.54	44.17	26.15	28.18			1.50	0.41
19		3	5		0.52	21.62	6.95	20.36	47.76		3.30	0.64
20		3	1	2	0.39	52.61	28.25	17.02			2.13	0.31
27		4	5		0.62	29.56	12.46	57.07			0.91	0.63
29		4	5		0.47	21.00	8.47	29.68	38.90		1.94	0.62
37		4	1	2	0.55	29.30	24.43	24.62	18.93		2.71	0.43
38		4	6	2	0.40	11.00	77.55	9.42			2.03	0.48
39		4	1	2	0.53	18.98	27.21	24.67	26.76		2.38	0.52
40		4	6	2	0.56	14.89	38.98	43.05			3.08	0.63
43		4	6	2	0.64	30.63	28.02	22.24	11.18		7.92	0.35
55		4	1	1	0.56	42.35	19.28	14.00	5.32		19.1	0.21
99		6	6	1	0.44	61.37	22.58	13.97			2.07	0.25
101		6	6	1	0.51	44.03	24.16	28.52			3.29	0.41
109		6	1	2	0.63	15.44	27.63	34.97	20.04		1.92	0.53

Mean Item-Total Corr.: 0.53    Mean p-Value: 0.46

**Table 51. Multiple-Choice Item Analyses, English Grade 6 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
57	5	3	7	0.37	0.04	0.89	78	5	2	7	0.40	0.18	0.89
58	5	3	7	0.47	0.12	0.77	79	5	2	7	0.32	0.27	0.75
59	5	3	7	0.42	0.33	0.83	80	5	2		0.51	0.26	0.77
60	5	3	7	0.42	0.64	0.90	81	5	2	5	0.28	0.21	0.33
61	5	3	7	0.48	0.95	0.71	82	5	2	5	0.31	0.25	0.49
62	5	3	7	0.47	0.09	0.80	83	5	2	5	0.45	0.24	0.69
63	5	3	7	0.43	0.21	0.71	84	5	3	7	0.45	0.34	0.84
64	5	3	7	0.56	0.50	0.78	85	5	2	5	0.48	0.22	0.78
65	5	3	7	0.24	0.33	0.55	86	5	2	5	0.45	0.26	0.68
66	5	3	7	0.40	0.86	0.53	87	5	2	7	0.26	0.26	0.46
67	5	3	7	0.22	0.80	0.49	88	5	2	7	0.54	0.41	0.81
68	5	3	7	0.41	0.65	0.89	89	5	2	8	0.43	0.34	0.65
69	5	3	7	0.38	0.87	0.57	90	5	2	8	0.52	0.71	0.82
70	5	3	7	0.51	0.67	0.67	91	5	2	8	0.49	0.57	0.59
71	5	3	7	0.36	0.68	0.40	92	5	2	5	0.42	0.34	0.64
72	5	3	7	0.29	0.77	0.37	93	5	3	8	0.44	0.65	0.69
73	5	3	7	0.38	0.53	0.87	94	5	3	8	0.14	0.88	0.28
74	5	3	7	0.42	0.19	0.51	95	5	3	8	0.44	0.49	0.76
75	5	3	7	0.47	0.20	0.54	96	5	3	8	0.22	0.70	0.34
76	5	2		0.35	0.52	0.57	97	5	3	8	0.42	0.72	0.58

Mean Item-Total Corr.: 0.4 Mean p-Value: 0.65

**Table 52. Constructed-Response Item Analyses, English Grade 6 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
1		1	2	6	0.09	0.74	99.26				0.00	0.99
2	A	2	3	7	0.46	22.61	76.64				0.74	0.77
2	B	2	3	8	0.50	19.54	79.71				0.75	0.80
2	C	2	3	8	0.32	49.29	49.96				0.75	0.50
2	D	2	3	8	0.52	40.74	58.51				0.75	0.59
2	E	2	3	8	0.43	26.92	72.33				0.75	0.72
2	F	2	3	8	0.46	10.30	88.95				0.75	0.89
3	A	2	2	6	0.58	1.18	3.24	39.79	50.41	5.24	0.14	0.64
3	B	2	2	6	0.59	0.09	3.70	41.39	49.79	4.89	0.14	0.64
3	C	2	3	6	0.43	0.14	6.99	92.73			0.14	0.96
77		5	2	5	0.50	0.33	1.64	27.63	52.71	16.74	0.96	0.70
98		5	2	5	0.51	0.50	2.02	40.32	48.56	6.36	2.24	0.63
116		5	2	5	0.59	0.42	5.21	34.55	46.32	12.30	1.20	0.66

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.73

**Table 53. Multiple-Choice Item Analyses, English Grade 6 Mathematics**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	1	1	0.47	0.19	0.48	31	2	2	2	0.41	0.17	0.43
2	1	4	3	0.43	0.09	0.70	32	2	3		0.48	0.23	0.56
3	1	3		0.37	0.10	0.80	34	2	4		0.40	0.29	0.36
4	1	1	1	0.33	0.10	0.89	35	2	6		0.32	0.22	0.68
6	1	6		0.41	0.29	0.75	36	2	2	2	0.30	0.14	0.92
7	1	6		0.51	0.37	0.73	38	2	6		0.49	0.43	0.46
9	1	6		0.24	0.72	0.88	39	2	4		0.39	1.48	0.68
10	1	2	2	0.47	0.12	0.82	41	3	1		0.51	0.13	0.44
11	1	2	2	0.41	0.21	0.49	42	3	6	1	0.51	0.12	0.43
13	1	3		0.47	0.35	0.49	43	3	1	1	0.44	0.20	0.48
14	1	4	3	0.38	0.13	0.76	45	3	6		0.37	0.44	0.83
15	1	6	1	0.38	0.15	0.84	47	3	4		0.53	0.21	0.53
17	1	2	2	0.43	0.53	0.83	49	3	1	1	0.39	0.09	0.70
18	1	1		0.63	0.26	0.52	50	3	1		0.55	0.34	0.53
19	1	4	3	0.49	0.40	0.53	52	3	4		0.29	0.16	0.89
21	2	3		0.38	0.10	0.65	53	3	4	3	0.44	0.22	0.72
22	2	3		0.34	0.09	0.83	54	3	2		0.29	0.27	0.46
24	2	1	1	0.62	0.09	0.62	55	3	3		0.39	0.27	0.40
25	2	3		0.23	0.15	0.37	56	3	1	1	0.40	0.31	0.80
26	2	4	3	0.46	0.18	0.76	57	3	2	3	0.35	0.64	0.74
27	2	4		0.47	0.12	0.79	58	3	4	3	0.52	0.41	0.42
28	2	1		0.52	0.33	0.51	59	3	4		0.35	0.37	0.87
29	2	6		0.61	0.96	0.68							

Mean Item-Total Corr.: 0.43 Mean p-Value: 0.65

**Table 54. Constructed-Response Item Analyses, English Grade 6 Mathematics**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
5		1	3		0.68	1.78	25.06	28.89	44.15		0.12	0.72
8		1	4	3	0.52	21.71	17.58	60.43			0.27	0.69
12		1	3		0.59	28.55	30.35	40.56			0.54	0.56
16		1	1	1	0.68	28.36	23.96	30.70	14.02		2.96	0.42
20		1	2	2	0.64	1.60	5.94	15.70	30.47	45.84	0.46	0.78
23		2	3		0.46	4.99	27.19	67.65			0.17	0.81
30		2	4	3	0.67	21.34	33.35	24.34	19.95		1.02	0.47
33		2	2	2	0.50	7.80	11.71	18.55	61.64		0.29	0.78
37		2	4	3	0.58	22.06	16.48	60.74			0.71	0.69
40		2	1	1	0.75	25.72	31.00	16.52	14.53	11.85	0.39	0.39
44		3	6	1	0.59	28.92	31.08	38.83			1.17	0.54
46		3	2	2	0.54	15.76	25.54	50.90	7.53		0.27	0.50
48		3	6	1	0.57	38.56	23.58	37.35			0.51	0.49
51		3	4	3	0.62	20.68	22.64	31.98	24.49		0.21	0.53
60		3	3		0.68	5.52	20.37	17.18	28.46	28.11	0.36	0.63

Mean Item-Total Corr.: 0.6 Mean p-Value: 0.6

**Table 55. Multiple-Choice Item Analyses, English Grade 7 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
6	3	4	2	0.31	0.32	0.50	40	4	5		0.54	0.24	0.78
7	3	1	3	0.44	0.18	0.48	44	4	1	2	0.35	0.87	0.58
8	3	1	3	0.55	0.44	0.64	45	4	1	2	0.24	0.68	0.40
9	3	4	2	0.42	0.18	0.83	46	4	4	2	0.39	0.76	0.35
10	3	1	3	0.45	0.17	0.85	47	4	4	2	0.55	1.01	0.77
11	3	5		0.36	0.24	0.34	48	4	1	2	0.34	1.07	0.45
12	3	5		0.41	0.18	0.49	49	4	4	2	0.25	1.25	0.49
13	3	5		0.45	0.25	0.58	95	6	4	1	0.55	2.66	0.76
15	3	4	1	0.51	0.22	0.82	96	6	1	1	0.45	0.13	0.85
16	3	6	1	0.50	0.22	0.79	97	6	4	1	0.54	0.21	0.80
17	3	1	3	0.48	0.35	0.75	98	6	6	1	0.44	0.48	0.57
18	3	5		0.27	0.57	0.35	99	6	6	1	0.52	0.26	0.91
20	3	5		0.37	0.36	0.63	100	6	4	1	0.16	0.71	0.47
21	3	1	3	0.20	0.50	0.45	101	6	4	1	0.41	0.88	0.76
24	4	6	1	0.40	0.60	0.84	102	6	4	1	0.39	0.13	0.88
25	4	4	1	0.45	0.12	0.72	103	6	5		0.50	0.23	0.69
26	4	1	3	0.40	0.14	0.47	104	6	5		0.25	0.14	0.55
27	4	1	3	0.41	0.24	0.92	105	6	5		0.38	0.13	0.60
28	4	4	1	0.42	0.13	0.92	106	6	5		0.42	0.22	0.70
29	4	1	1	0.26	0.23	0.48	107	6	5		0.21	0.32	0.43
30	4	6	1	0.45	0.30	0.82	108	6	4	4	0.36	0.13	0.62
31	4	4	1	0.43	0.50	0.69	109	6	1	3	0.57	0.14	0.64
32	4	1	3	0.45	0.14	0.72	110	6	6	4	0.42	0.17	0.67
34	4	6	4	0.45	0.10	0.60	111	6	4	4	0.53	0.41	0.73
35	4	6	4	0.45	0.13	0.87	112	6	5		0.44	0.15	0.61
36	4	6	4	0.37	0.26	0.81	113	6	5		0.27	0.15	0.73
37	4	6	4	0.35	0.26	0.62	114	6	1	3	0.33	0.32	0.66
38	4	5		0.42	0.58	0.70	116	6	5		0.33	0.19	0.67

Mean Item-Total Corr.: 0.4 Mean p-Value: 0.66

**Table 56. Constructed-Response Item Analyses, English Grade 7 Reading**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
4		3	5		0.51	19.62	7.59	22.56	46.59		3.64	0.64
5		3	1	2	0.37	45.31	31.71	20.66			2.33	0.37
14		3	6	1	0.46	28.57	42.15	21.69	5.08		2.52	0.34
19		3	1	1	0.60	34.84	31.90	21.75	6.69		4.81	0.32
23		4	5		0.52	19.13	40.19	38.79			1.89	0.59
33		4	1	1	0.44	14.49	44.44	1.68	38.19		1.19	0.54
39		4	1	4	0.67	13.66	12.30	25.42	46.68		1.94	0.68
41		4	6	4	0.49	45.14	28.69	18.61			7.56	0.33
42		4	1	2	0.44	40.69	19.51	17.07	20.72		2.01	0.39
43		4	1	2	0.64	24.23	17.73	54.54			3.50	0.63
92		6	6	1	0.60	22.91	26.35	49.90			0.84	0.63
93		6	4	1	0.61	33.64	37.67	27.67			1.02	0.47
94		6	6	1	0.62	25.81	18.51	23.62	29.12		2.93	0.51
115		6	4	4	0.39	40.40	43.61	14.11			1.88	0.36

Mean Item-Total Corr.: 0.53    Mean p-Value: 0.49

**Table 57. Multiple-Choice Item Analyses, English Grade 7 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
50	5	3	7	0.38	0.05	0.89	71	5	3	7	0.42	0.38	0.88
51	5	3	7	0.42	0.10	0.78	72	5	3	7	0.40	0.34	0.59
52	5	3	7	0.41	0.23	0.86	73	5	3	7	0.29	0.49	0.71
53	5	3	7	0.18	0.11	0.42	74	5	3	7	0.31	0.60	0.33
54	5	3	7	0.47	0.23	0.72	75	5	3	7	0.26	0.26	0.41
55	5	3	7	0.42	0.34	0.85	76	5	3	7	0.45	0.46	0.53
56	5	3	7	0.36	0.22	0.68	77	5	2	5	0.28	0.25	0.33
57	5	3	7	0.48	0.60	0.85	78	5	2	5	0.40	0.28	0.55
58	5	3	7	0.39	1.70	0.50	79	5	2	5	0.53	0.30	0.80
60	5	3	8	0.25	0.15	0.51	80	5	2	5	0.48	0.44	0.76
61	5	3	8	0.31	0.27	0.38	81	5	2	5	0.51	0.26	0.83
62	5	2	7	0.51	0.30	0.87	82	5	2	5	0.49	0.33	0.73
63	5	2	8	0.41	0.17	0.85	83	5	2		0.43	0.43	0.93
64	5	2	8	0.48	0.27	0.86	84	5	2		0.51	0.33	0.81
65	5	2	8	0.52	0.28	0.72	85	5	3	8	0.56	0.47	0.80
66	5	2	8	0.43	0.17	0.74	86	5	3	8	0.28	1.35	0.31
67	5	2	8	0.51	0.51	0.85	87	5	3	8	0.47	0.32	0.76
68	5	2	8	0.49	0.49	0.74	88	5	3	8	0.47	0.68	0.66
69	5	3	7	0.16	0.44	0.61	89	5	3	8	0.47	0.61	0.66
70	5	3	7	0.30	0.52	0.62	90	5	3	8	0.56	0.67	0.78

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.69

**Table 58. Constructed-Response Item Analyses, English Grade 7 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
1		1	2	6	0.14	1.09	98.91				0.00	0.99
2	A	2	3	7	0.55	22.61	76.80				0.59	0.77
2	B	2	3	7	0.35	24.94	74.47				0.58	0.74
2	C	2	3	8	0.47	27.88	71.54				0.59	0.72
2	D	2	3	7	0.46	44.14	55.27				0.59	0.55
2	E	2	3	8	0.58	40.37	59.05				0.59	0.59
2	F	2	3	8	0.37	55.73	43.69				0.59	0.44
3	A	2	2	6	0.60	3.29	3.92	35.83	53.49	3.27	0.21	0.62
3	B	2	2	6	0.62	0.07	5.06	39.08	52.49	3.09	0.21	0.63
3	C	2	3	6	0.48	0.18	12.90	86.71			0.22	0.93
22		5	2	5	0.57	0.40	2.23	33.50	49.82	12.34	1.71	0.67
59		5	2	5	0.51	0.22	2.96	44.25	41.56	10.11	0.89	0.64
91		5	2	5	0.59	2.24	8.27	45.64	32.83	8.34	2.68	0.58

Mean Item-Total Corr.: 0.48 Mean p-Value: 0.68



**Table 59. Multiple-Choice Item Analyses, English Grade 7 Mathematics**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	4		0.52	0.14	0.65	31	2	1		0.55	0.12	0.73
2	1	4		0.39	0.11	0.64	33	2	2		0.45	0.14	0.51
4	1	3		0.22	0.30	0.64	34	2	2		0.47	0.29	0.75
5	1	2		0.39	0.25	0.58	36	2	4	2	0.25	0.49	0.27
6	1	4	2	0.46	0.20	0.56	37	2	4		0.45	0.30	0.75
7	1	1		0.46	0.31	0.45	38	2	4		0.37	0.24	0.65
9	1	3		0.32	0.12	0.84	39	2	4		0.39	0.26	0.51
11	1	2		0.38	0.41	0.42	41	3	2		0.41	0.05	0.86
12	1	1		0.31	0.50	0.45	42	3	1	1	0.46	0.08	0.68
13	1	1		0.21	1.25	0.90	44	3	4		0.40	0.75	0.66
14*	1	1	1	-.19	0.55	0.13	45	3	2		0.38	0.14	0.83
16	1	1		0.43	0.58	0.74	46	3	3		0.43	0.25	0.61
17	1	4		0.36	0.59	0.56	47	3	1		0.54	0.65	0.48
18	1	3		0.45	0.53	0.47	48	3	1		0.47	0.76	0.49
19	1	1		0.36	0.65	0.84	50	3	1	1	0.46	0.31	0.48
21	2	1		0.46	0.16	0.33	51	3	3		0.48	0.30	0.71
22	2	2		0.42	0.17	0.68	52	3	1	1	0.49	0.43	0.76
23	2	3		0.48	0.26	0.58	54	3	4		0.18	0.23	0.80
24	2	1		0.36	0.17	0.84	55	3	2		0.54	0.16	0.57
26	2	4		0.24	0.36	0.32	56	3	3		0.42	0.39	0.72
27	2	1	1	0.40	0.48	0.41	58	3	2		0.49	0.35	0.62
28	2	3		0.30	0.48	0.29	59	3	4	2	0.30	0.36	0.67
30	2	3		0.15	0.12	0.98							

Mean Item-Total Corr.: 0.38 Mean p-Value: 0.61

\* Item removed from calibration.

**Table 60. Constructed-Response Item Analyses, English Grade 7 Mathematics**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
3		1	2		0.50	63.47	12.05	22.29			2.20	0.28
8		1	1	1	0.75	25.41	19.80	21.35	33.18		0.27	0.54
10		1	3		0.52	79.66	6.42	12.87			1.04	0.16
15		1	4	2	0.70	59.46	22.22	5.44	11.26		1.62	0.22
20		1	1		0.63	9.34	47.83	29.04	4.55	8.35	0.90	0.38
25		2	3		0.69	57.35	22.50	11.72	7.90		0.53	0.23
29		2	4	2	0.46	51.00	35.99	10.72			2.29	0.29
32		2	4		0.59	63.53	7.91	27.12			1.44	0.31
35		2	2		0.58	14.72	25.76	46.14	13.02		0.35	0.52
40		2	4	2	0.73	31.76	9.53	24.15	18.12	15.83	0.62	0.44
43		3	1	1	0.58	29.92	27.90	40.43			1.74	0.54
49		3	4		0.69	30.00	9.69	23.92	35.09		1.30	0.54
53		3	1	1	0.62	36.87	22.47	39.79			0.87	0.51
57		3	2		0.44	3.58	9.32	28.90	57.62		0.59	0.80
60		3	3		0.66	20.57	25.01	16.61	31.84	4.51	1.45	0.43

Mean Item-Total Corr.: 0.61 Mean p-Value: 0.41

**Table 61. Multiple-Choice Item Analyses, English Grade 8 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	6	1	0.44	0.15	0.78	41	4	1	2	0.28	1.28	0.39
5	3	4	1	0.38	0.14	0.83	42	4	4	2	0.43	1.51	0.37
6	3	6	1	0.25	0.11	0.51	43	4	4	2	0.53	1.84	0.79
7	3	1	3	0.44	0.04	0.91	44	4	1	2	0.41	2.34	0.53
8	3	1	3	0.46	0.07	0.53	45	4	5		0.26	2.24	0.83
9	3	4	1	0.49	0.16	0.59	46	4	5		0.40	2.37	0.47
10	3	1	1	0.54	0.16	0.80	92	6	1	1	0.30	1.52	0.82
11	3	5		0.39	0.05	0.87	93	6	1	1	0.42	0.11	0.88
12	3	5		0.41	0.11	0.73	94	6	6	1	0.43	0.20	0.56
15	3	4	2	0.41	0.29	0.83	95	6	6	1	0.24	0.39	0.63
16	3	1	3	0.49	0.12	0.88	96	6	1	3	0.15	0.20	0.54
17	3	1	3	0.47	0.19	0.75	97	6	1	3	0.40	0.83	0.60
18	3	4	2	0.19	0.53	0.36	98	6	4	1	0.46	0.13	0.83
19	3	5		0.37	0.19	0.72	99	6	5		0.48	0.30	0.72
20	3	5		0.32	0.31	0.42	100	6	5		0.25	0.11	0.57
22	4	1	2	0.31	0.08	0.76	101	6	6	4	0.19	0.12	0.36
23	4	1	2	0.33	0.08	0.50	102	6	6	4	0.25	0.21	0.34
25	4	1	2	0.11	0.17	0.49	103	6	5		0.28	0.28	0.38
26	4	4	2	0.35	0.13	0.86	104	6	4	4	0.30	0.38	0.39
27	4	4	2	0.47	0.18	0.76	105	6	5		0.31	0.18	0.36
31	4	4	1	0.46	0.17	0.88	106	6	6	4	0.28	0.28	0.37
32	4	6	1	0.54	0.21	0.86	107	6	6	4	0.51	0.26	0.71
33	4	6	1	0.32	0.35	0.48	110	6	1	3	0.38	2.77	0.46
34	4	6	1	0.30	0.45	0.46	112	6	4	2	0.34	0.59	0.49
35	4	6	1	0.51	0.28	0.80	113	6	1	3	0.49	0.60	0.81
36	4	1	3	0.28	0.29	0.68	114	6	1	3	0.50	0.79	0.51
37	4	5		0.44	0.49	0.68	115	6	5		0.46	1.00	0.56
40	4	1	2	0.37	1.50	0.62	116	6	5		0.49	1.04	0.79

Mean Item-Total Corr.: 0.38 Mean p-Value: 0.63

**Table 62. Constructed-Response Item Analyses, English Grade 8 Reading**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
13		3	1	2	0.46	3.94	10.64	25.72	58.60		1.10	0.79
14		3	1	2	0.57	11.39	29.32	8.79	47.15		3.36	0.63
24		4	1	2	0.47	17.16	73.47	7.15			2.22	0.44
28		4	5		0.62	8.99	30.99	46.21	10.43		3.38	0.52
29		4	6	1	0.51	40.40	28.89	25.63			5.08	0.40
30		4	4	1	0.60	28.92	15.36	18.27	33.41		4.03	0.51
38		4	1	2	0.56	24.78	27.52	43.32			4.38	0.57
39		4	1	2	0.62	19.33	16.33	58.80			5.54	0.67
89		6	6	1	0.59	18.30	24.09	56.52			1.09	0.69
90		6	4	1	0.63	28.47	34.83	36.04			0.65	0.53
91		6	6	1	0.50	18.07	33.91	45.64			2.39	0.63
108		6	4	4	0.63	10.80	29.99	44.50	9.78		4.93	0.49
109		6	6	4	0.50	58.72	23.92	9.79			7.57	0.22
111		6	5		0.60	7.46	8.24	21.17	37.01	20.48	5.65	0.61

Mean Item-Total Corr.: 0.56    Mean p-Value: 0.55

**Table 63. Multiple-Choice Item Analyses, English Grade 8 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
47	5	3	8	0.48	0.11	0.81	68	5	2	8	0.53	0.52	0.88
48	5	3	8	0.46	0.16	0.82	69	5	2	8	0.45	0.66	0.57
49	5	2		0.43	0.65	0.70	70	5	3	7	0.19	0.31	0.44
50	5	2		0.44	0.16	0.65	71	5	3	8	0.39	0.31	0.62
51	5	2		0.48	0.21	0.68	72	5	3	8	0.49	0.37	0.42
52	5	3	7	0.44	0.42	0.88	73	5	2		0.47	0.20	0.63
53	5	2	5	0.33	0.12	0.35	74	5	2	5	0.47	0.26	0.76
54	5	2	5	0.38	0.14	0.59	75	5	3	7	0.43	0.24	0.57
55	5	2	5	0.46	0.17	0.82	76	5	3	7	0.33	0.41	0.37
56	5	2	5	0.45	0.23	0.92	77	5	3	7	0.51	0.28	0.66
57	5	3	7	0.37	0.24	0.72	78	5	3	7	0.45	5.34	0.76
58	5	3	7	0.19	0.45	0.65	79	5	3	7	0.41	0.36	0.55
59	5	3	7	0.31	0.60	0.61	80	5	3	7	0.53	0.71	0.79
60	5	3	7	0.16	5.11	0.80	81	5	3	7	0.38	0.63	0.57
61	5	3	7	0.30	0.67	0.78	82	5	3	7	0.51	0.71	0.71
62	5	3	7	0.20	0.34	0.40	83	5	3	8	0.39	0.32	0.73
64	5	3	8	0.47	0.21	0.82	84	5	3	8	0.40	0.42	0.66
65	5	3	8	0.38	0.26	0.90	85	5	2	8	0.55	0.37	0.81
66	5	2		0.46	0.27	0.85	86	5	3	7	0.56	0.31	0.74
67	5	2	8	0.48	0.20	0.76	87	5	2	5	0.51	0.37	0.73

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.69

**Table 64. Constructed-Response Item Analyses, English Grade 8 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
1		1	2	6	0.14	1.17	98.83				0.00	0.99
2	A	2	3	8	0.41	22.82	76.28				0.90	0.76
2	B	2	3	8	0.30	43.80	55.30				0.90	0.55
2	C	2	3	7	0.48	43.50	55.61				0.90	0.56
2	D	2	3	8	0.34	37.68	61.42				0.90	0.61
2	E	2	3	7	0.41	56.48	42.62				0.90	0.43
2	F	2	3	8	0.39	29.85	69.25				0.90	0.69
3	A	2	2	6	0.59	2.06	2.17	20.00	67.01	8.54	0.22	0.69
3	B	2	2	6	0.63	0.06	3.23	25.19	63.15	8.15	0.22	0.69
3	C	2	3	6	0.50	0.11	13.70	85.98			0.22	0.93
21		5	2	5	0.58	0.19	4.63	26.21	55.84	11.56	1.57	0.68
63		5	2	5	0.58	0.27	5.38	33.98	46.02	13.02	1.34	0.66
88		5	2	5	0.59	1.48	6.06	40.00	39.75	9.48	3.22	0.61

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.68

**Table 65. Multiple-Choice Item Analyses, English Grade 8 Mathematics**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	2	2	0.36	0.15	0.59	32	2	4	2	0.37	0.33	0.40
3	1	1	2	0.45	0.54	0.37	34	2	1		0.32	0.27	0.45
4	1	1		0.30	0.70	0.74	35	2	2	1	0.19	0.37	0.18
5	1	1		0.47	0.48	0.55	36	2	4	3	0.20	0.34	0.27
6	1	3	2	0.45	0.59	0.59	37	2	1	2	0.29	0.68	0.48
8	1	1		0.24	0.32	0.11	38	2	1		0.58	1.83	0.54
9	1	2		0.37	0.29	0.54	39	2	2	1	0.47	0.97	0.30
11	1	2		0.44	0.40	0.48	41	3	2		0.36	0.09	0.81
12	1	4	3	0.38	0.26	0.41	42	3	1		0.52	0.12	0.69
13	1	4		0.37	0.18	0.67	43	3	4		0.41	0.19	0.73
14	1	4		0.57	0.50	0.42	45	3	1		0.40	0.13	0.47
16	1	4	2	0.35	0.39	0.74	46	3	3		0.24	0.12	0.21
17	1	4	2	0.19	0.59	0.60	47	3	4	3	0.14	0.26	0.26
18	1	3		0.42	0.64	0.66	49	3	3		0.39	0.52	0.75
19	1	3		0.22	2.19	0.84	51	3	4	3	0.19	0.31	0.21
21	2	3		0.34	0.19	0.29	52	3	2		0.50	0.45	0.70
22	2	4	2	0.35	0.23	0.70	54	3	1		0.45	0.16	0.71
23	2	2	1	0.30	0.08	0.93	55	3	4		0.44	0.20	0.51
24	2	3		0.55	0.10	0.52	56	3	3		0.55	0.24	0.35
26	2	2		0.40	0.12	0.70	57	3	2		0.46	0.29	0.40
27	2	3		0.29	0.15	0.17	58	3	4	3	0.19	0.37	0.82
29	2	4	3	0.27	0.27	0.15	59	3	2	1	0.27	0.35	0.40
31	2	1	2	0.31	0.31	0.30							

Mean Item-Total Corr.: 0.36 Mean p-Value: 0.5

**Table 66. Constructed-Response Item Analyses, English Grade 8 Mathematics**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
2		1	2		0.51	33.46	24.04	42.21			0.30	0.54
7		1	3		0.73	17.86	32.28	16.41	32.36		1.08	0.54
10		1	1	2	0.68	47.29	11.90	38.76			2.05	0.45
15		1	1	2	0.55	57.59	24.06	11.14	4.72		2.49	0.20
20		1	1	2	0.73	33.66	26.80	25.21	8.50	4.14	1.68	0.30
25		2	2	1	0.58	71.80	13.20	9.61			5.39	0.16
28		2	3		0.69	11.91	28.94	35.44	22.83		0.89	0.56
30		2	4	2	0.60	58.18	8.85	30.77			2.20	0.35
33		2	4	3	0.67	41.99	36.80	12.30	7.08		1.83	0.28
40		2	4	3	0.71	23.17	8.84	23.59	21.35	22.02	1.03	0.52
44		3	3		0.70	33.54	22.24	43.67			0.54	0.55
48		3	4		0.66	16.71	8.54	27.81	45.86		1.08	0.67
50		3	1		0.56	54.10	7.67	35.94			2.30	0.40
53		3	2	1	0.75	37.76	19.65	19.84	19.89		2.87	0.40
60		3	2	1	0.57	5.40	11.61	23.22	40.79	18.64	0.34	0.64

Mean Item-Total Corr.: 0.65 Mean p-Value: 0.44

**Table 67. Multiple-Choice Item Analyses, English Grade 8 Science**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	3		0.21	0.03	0.83	45	2	1	1	0.42	0.16	0.83
3	1	2	4	0.27	0.16	0.52	46	2	4	5	0.40	0.08	0.59
4	1	3		0.10	0.06	0.15	47	2	1	1	0.40	0.10	0.42
5	1	3		0.37	0.06	0.53	48	2	1	1	0.46	0.25	0.58
6	1	1	1	0.48	0.11	0.55	50*	2	4	5	-.04	0.72	0.20
8	1	2	3	0.30	0.03	0.35	51	2	3		0.13	0.53	0.27
9	1	4	5	0.17	0.23	0.34	52	2	1	2	0.44	0.39	0.50
10	1	2	4	0.23	0.20	0.51	54	2	1	1	0.36	0.09	0.50
11	1	1		0.55	0.07	0.66	55	2	1	2	0.55	0.22	0.80
12	1	1	2	0.34	0.17	0.66	56	3	4	5	0.28	0.15	0.24
13	1	4	5	0.38	0.07	0.89	58	3	2	4	0.25	0.13	0.35
14	1	4	5	0.38	0.20	0.86	59	3	3		0.37	0.16	0.29
15	1	1	2	0.36	0.09	0.67	60	3	4		0.35	0.09	0.79
16	1	4		0.36	0.14	0.36	61	3	1	2	0.36	0.11	0.83
17	1	1	1	0.32	0.35	0.69	62	3	4		0.32	2.85	0.49
18	1	2	4	0.33	0.16	0.53	64	3	1	2	0.30	0.14	0.95
27	2	1	2	0.41	0.02	0.88	65	3	1	2	0.35	0.78	0.90
28	2	3		0.14	0.17	0.37	67	3	1	2	0.42	0.18	0.77
29	2	1	2	0.25	0.31	0.66	68	3	1	1	0.44	0.32	0.50
30	2	3		0.33	0.13	0.46	69	3	2	3	0.40	0.25	0.46
32*	2	1	1	-.08	0.18	0.17	70	3	1	1	0.38	0.11	0.37
34	2	1	2	0.38	0.12	0.35	71	3	2	4	0.42	0.13	0.21
35	2	2	4	0.33	0.13	0.49	72	3	2	4	0.23	0.20	0.47
36	2	1	1	0.40	0.22	0.66	73	3	3		0.50	0.07	0.82
37	2	2	3	0.29	0.37	0.45	74	3	3		0.38	0.18	0.79
38	2	4	5	0.37	0.43	0.50	76	3	3		0.26	0.29	0.39
40	2	3		0.32	0.18	0.42	79	3	4		0.26	0.18	0.74
42	2	4	5	0.37	0.19	0.53	81	3	4	5	0.53	0.40	0.65
43	2	1	2	0.56	0.12	0.73	82	3	3		0.21	0.22	0.49
44	2	2	3	0.32	0.14	0.62	83	3	2	4	0.10	0.16	0.24

Mean Item-Total Corr.: 0.33 Mean p-Value: 0.55

\* Item removed from calibration.

**Table 68. Constructed-Response Item Analyses, English Grade 8 Science**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
2		1	1		0.64	41.08	41.49	10.92			6.51	0.32
7		1	4		0.49	26.17	63.36	9.45			1.01	0.41
19		1	1	1	0.58	32.08	30.89	35.74			1.29	0.51
20		1	1	1	0.49	45.14	53.13				1.73	0.53
21		1	1	2	0.39	15.16	83.33				1.52	0.83
22		1	1	2	0.59	9.16	13.64	17.85	23.44	35.01	0.90	0.65
23		1	1	2	0.52	22.69	75.40				1.91	0.75
24		1	1	1	0.26	88.34	10.09				1.57	0.10
25		1	1	2	0.28	79.00	18.21				2.80	0.18
26		2	4	5	0.46	65.58	4.62	24.72			5.08	0.27
31		2	2	3	0.61	48.58	29.57	20.61			1.23	0.35
33		2	4	5	0.38	71.29	25.11				3.59	0.25
39		2	1	2	0.54	28.33	29.51	40.11			2.05	0.55
41		2	2	3	0.31	55.97	27.00	13.72			3.31	0.27
49		2	3		0.43	38.76	59.01				2.23	0.59
53		2	3		0.44	25.39	24.40	48.69			1.52	0.61
57		3	2	3	0.49	45.57	10.68	41.14			2.61	0.46
63		3	2	4	0.55	58.26	29.39	10.37			1.98	0.25
66		3	3		0.40	7.31	18.40	73.00			1.29	0.82
75		3	3		0.34	31.36	67.42				1.22	0.67
77		3	3		0.42	72.83	16.53	1.45			9.19	0.10
78		3	4	5	0.62	34.76	45.04	18.38			1.82	0.41
80		3	1	1	0.65	11.06	37.94	49.48			1.52	0.68

Mean Item-Total Corr.: 0.47 Mean p-Value: 0.46

**Table 69. Multiple-Choice Item Analyses, English Grade 9 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	6	1	0.56	0.09	0.79	38	4	6	4	0.45	0.12	0.74
6	3	4	1	0.42	0.04	0.92	39	4	1	3	0.25	0.10	0.72
7	3	6	1	0.49	0.07	0.90	40	4	4	4	0.49	0.21	0.70
8	3	6	1	0.33	0.15	0.46	41	4	6	4	0.27	0.18	0.78
9	3	6	1	0.31	0.19	0.54	43	4	1	2	0.42	0.55	0.71
10	3	6	1	0.47	0.05	0.85	45	4	1	3	0.55	0.17	0.80
11	3	1	3	0.25	0.09	0.70	46	4	1	3	0.34	0.29	0.67
12	3	5		0.47	0.20	0.71	48	4	5		0.34	1.18	0.64
15	3	4	2	0.39	0.11	0.83	49	4	5		0.32	0.48	0.41
16	3	1	3	0.51	0.10	0.89	50	4	5		0.33	0.50	0.66
17	3	1	3	0.47	0.12	0.77	51	4	5		0.42	0.39	0.78
18	3	1	2	0.35	0.16	0.78	52	4	1	3	0.44	0.47	0.65
19	3	1	2	0.44	0.25	0.85	54	4	5		0.36	0.52	0.53
20	3	4	2	0.21	0.26	0.38	55	4	5		0.23	0.89	0.25
21	3	5		0.40	0.40	0.73	98	6	4	2	0.50	0.11	0.78
23	3	4	4	0.37	0.17	0.80	99	6	1	3	0.50	0.07	0.83
24	3	4	4	0.34	0.29	0.67	101	6	5		0.15	0.34	0.51
26	3	6	4	0.15	4.32	0.30	102	6	5		0.55	0.18	0.74
27	3	6	4	0.39	0.55	0.75	103	6	5		0.41	0.15	0.87
28	3	5		0.46	0.59	0.60	107	6	4	2	0.35	0.30	0.39
29	4	1	1	0.38	0.75	0.72	108	6	1	2	0.42	0.25	0.58
30	4	4	1	0.50	0.17	0.63	109	6	4	2	0.43	0.37	0.53
31	4	1	3	0.28	0.13	0.56	110	6	4	2	0.47	0.31	0.79
32	4	6	1	0.33	0.29	0.29	111	6	1	3	0.30	0.34	0.35
34	4	5		0.25	0.23	0.48	112	6	4	2	0.07	0.40	0.27
35	4	5		0.26	0.11	0.63	113	6	5		0.44	0.35	0.50
36	4	5		0.49	0.11	0.85	114	6	5		0.44	0.76	0.69
37	4	6	4	0.47	0.08	0.67	115	6	5		0.24	0.48	0.33

Mean Item-Total Corr.: 0.38 Mean p-Value: 0.65



**Table 70. Constructed-Response Item Analyses, English Grade 9 Reading**

Item #	Part	Session	CS	SA	Item- Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
5		3	4	1	0.58	21.47	13.73	19.00	43.73		2.07	0.61
13		3	1	2	0.46	3.12	8.90	23.84	62.91		1.23	0.82
14		3	1	2	0.58	8.73	23.97	12.46	51.51		3.34	0.68
22		3	6	4	0.52	46.36	12.94	14.54	20.42		5.73	0.34
25		3	6	4	0.63	8.76	10.64	22.44	55.89		2.26	0.74
33		4	6	1	0.47	20.37	45.44	31.83			2.36	0.55
42		4	6	4	0.49	28.31	42.12	23.46			6.10	0.45
44		4	4	2	0.51	22.42	49.19	14.48	10.01		3.90	0.36
47		4	1	2	0.67	19.93	9.83	43.98	19.23		7.03	0.52
53		4	1	2	0.70	21.17	21.10	27.09	21.17		9.48	0.46
100		6	1	2	0.65	33.78	19.78	42.17			4.28	0.52
104		6	4	2	0.52	24.35	46.52	21.20	3.23		4.70	0.33
105		6	5		0.55	21.94	14.19	32.88	26.03		4.97	0.53
106		6	1	2	0.58	41.82	30.01	9.96	10.94		7.26	0.28

Mean Item-Total Corr.: 0.57    Mean p-Value: 0.51

**Table 71. Multiple-Choice Item Analyses, English Grade 9 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
56	5	3	7	0.30	0.09	0.57	77	5	3	7	0.51	0.59	0.67
57	5	3	7	0.40	0.06	0.93	78	5	3	7	0.31	0.40	0.33
58	5	3	7	0.42	0.25	0.81	79	5	3	7	0.39	0.54	0.41
59	5	3	7	0.14	0.14	0.50	80	5	3	7	0.45	0.63	0.60
60*	5	3	7	-.03	0.19	0.11	81	5	3	7	0.54	0.47	0.80
61	5	2		0.38	0.73	0.88	82	5	2	5	0.50	0.24	0.78
62	5	3	8	0.30	0.13	0.34	83	5	2	7	0.38	0.33	0.68
63	5	3	8	0.49	0.22	0.73	84	5	2	5	0.30	0.29	0.55
64	5	3	8	0.50	0.26	0.65	85	5	2		0.49	0.29	0.70
65	5	3	8	0.43	0.73	0.86	86	5	2	5	0.37	0.26	0.62
66	5	3	8	0.18	0.18	0.58	87	5	2	5	0.49	0.31	0.77
67	5	3	8	0.36	0.36	0.57	88	5	2	5	0.29	0.34	0.45
68	5	3	8	0.37	0.23	0.71	89	5	2	5	0.50	0.31	0.87
70	5	3	8	0.62	0.23	0.79	90	5	2	8	0.57	0.34	0.86
71	5	3	7	0.25	0.30	0.47	91	5	2	8	0.52	0.43	0.70
72	5	3	8	0.53	0.50	0.80	92	5	2	5	0.52	0.33	0.89
73	5	3	8	0.45	0.35	0.75	93	5	2	5	0.53	0.34	0.75
74	5	3	7	0.42	0.28	0.53	94	5	2		0.51	0.41	0.68
75	5	3	7	0.55	0.43	0.64	95	5	2		0.48	0.73	0.74
76	5	3	7	0.42	0.40	0.62	96	5	3	7	0.37	0.54	0.53

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.66

\* Item removed from calibration.

**Table 72. Constructed-Response Item Analyses, English Grade 9 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
1		1	2	6	0.21	2.06	97.94				0.00	0.98
2	A	2	3	8	0.37	77.69	20.73				1.57	0.21
2	B	2	3	7	0.41	36.19	62.22				1.59	0.62
2	C	2	3	8	0.51	21.54	76.87				1.59	0.77
2	D	2	3	7	0.48	59.25	39.16				1.59	0.39
2	E	2	3	8	0.50	38.61	59.80				1.59	0.60
2	F	2	3	8	0.37	75.43	22.98				1.59	0.23
3	A	2	2	6	0.68	2.71	7.70	35.33	46.79	7.16	0.30	0.62
3	B	2	2	6	0.70	0.12	7.60	38.04	47.21	6.72	0.30	0.63
3	C	2	3	6	0.61	0.16	31.23	68.30			0.30	0.84
69		5	2	5	0.60	0.34	4.10	32.12	48.33	13.04	2.07	0.66
97		5	2	5	0.58	0.50	3.63	30.28	51.54	11.23	2.82	0.66
116		5	2	5	0.59	0.48	11.33	47.44	30.09	8.26	2.41	0.57

Mean Item-Total Corr.: 0.51 Mean p-Value: 0.60

**Table 73. Multiple-Choice Item Analyses, English Grade 9 Mathematics**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	3	2	0.41	0.09	0.62	32	2	2		0.37	0.35	0.64
2	1	2	1	0.17	0.15	0.29	33	2	3		0.53	0.17	0.51
4	1	1		0.29	0.25	0.11	34	2	3		0.22	0.60	0.33
5	1	2		0.30	0.07	0.82	36	2	2		0.41	0.63	0.25
7	1	3		0.51	0.19	0.53	37	2	1		0.44	0.58	0.76
8	1	2		0.49	0.28	0.41	38	2	3		0.38	0.46	0.70
9	1	2	1	0.54	0.24	0.36	39	2	4		0.23	0.88	0.46
10	1	3		0.41	0.31	0.46	41	3	1		0.40	0.39	0.56
12	1	4	2	0.25	0.79	0.34	42	3	1		0.30	0.20	0.70
13	1	4		0.30	0.46	0.29	43	3	4		0.39	0.16	0.64
14	1	1		0.39	0.55	0.67	45	3	3		0.21	1.46	0.87
16	1	2		0.13	1.01	0.17	46	3	4		0.42	0.41	0.63
17	1	3		0.23	1.45	0.24	47	3	4		0.12	0.34	0.56
18	1	4		0.23	1.22	0.43	49	3	1		0.52	0.77	0.38
19	1	3		0.29	1.25	0.69	50	3	2		0.20	0.30	0.25
21	2	2	1	0.27	0.11	0.37	51	3	4		0.27	0.44	0.27
22	2	4	2	0.38	0.26	0.38	53	3	1		0.41	0.51	0.28
24	2	3		0.53	0.27	0.34	55	3	4		0.41	0.44	0.59
25	2	2		0.24	0.07	0.87	56	3	2	1	0.27	0.50	0.15
26	2	1		0.34	0.30	0.32	57	3	1	2	0.41	0.62	0.51
28	2	1		0.37	0.39	0.46	58	3	1	2	0.45	0.68	0.34
29	2	3		0.21	0.30	0.62	59	3	2		0.49	0.85	0.37
31	2	4		0.46	0.18	0.34							

Mean Item-Total Corr.: 0.35 Mean p-Value: 0.46

**Table 74. Constructed-Response Item Analyses, English Grade 9 Mathematics**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
3		1	3		0.57	55.30	35.33	8.35			1.02	0.26
6		1	2	1	0.72	16.42	48.41	16.52	16.40		2.25	0.44
11		1	1	2	0.59	72.15	3.13	21.89			2.84	0.23
15		1	1	2	0.61	53.81	23.06	12.97	6.06		4.10	0.22
20		1	4		0.76	27.72	30.09	18.71	16.52	3.78	3.18	0.33
23		2	2		0.54	75.07	6.21	14.69			4.03	0.18
27		2	4		0.70	38.31	34.81	14.76	9.99		2.13	0.31
30		2	3		0.44	59.68	23.05	14.72			2.55	0.26
35		2	4	2	0.51	15.18	24.84	55.29	4.15		0.53	0.49
40		2	2	1	0.68	14.36	21.34	22.31	24.40	15.57	2.03	0.50
44		3	1		0.61	75.11	3.63	19.82			1.44	0.22
48		3	3	2	0.77	48.10	24.16	17.15	8.14		2.45	0.28
52		3	2	1	0.64	67.55	15.58	12.29			4.59	0.20
54		3	2	1	0.71	31.41	17.85	20.74	24.80		5.21	0.45
60		3	3	1	0.60	12.57	43.78	33.59	5.20	2.11	2.74	0.34

Mean Item-Total Corr.: 0.63 Mean p-Value: 0.31

**Table 75. Multiple-Choice Item Analyses, English Grade 10 Reading**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	1	1	0.44	0.03	0.76	40	4	1	2	0.61	0.24	0.62
5	3	1	1	0.38	0.11	0.83	41	4	1	3	0.52	0.20	0.89
6	3	1	1	0.45	0.12	0.79	42	4	1	3	0.21	0.37	0.52
8	3	4	1	0.49	0.17	0.86	43	4	5		0.38	0.27	0.49
9	3	6	1	0.44	0.17	0.82	44	4	4	2	0.37	0.34	0.61
11	3	5		0.25	0.10	0.70	45	4	4	2	0.55	0.54	0.71
12	3	1	3	0.44	0.38	0.72	46	4	1	3	0.53	0.38	0.83
13	3	5		0.43	0.20	0.72	48	4	5		0.59	0.36	0.72
16	3	1	3	0.26	0.16	0.71	49	4	5		0.44	0.35	0.87
17	3	6	4	0.36	0.30	0.76	95	6	4	2	0.39	0.17	0.49
18	3	6	4	0.32	0.31	0.70	96	6	1	2	0.43	0.16	0.60
19	3	6	4	0.41	0.41	0.70	97	6	4	2	0.42	0.41	0.59
20	3	6	4	0.40	0.23	0.61	98	6	4	2	0.47	0.30	0.82
21	3	5		0.40	0.17	0.70	99	6	1	3	0.38	0.37	0.43
22	3	5		0.49	0.28	0.67	101	6	4	2	0.16	0.28	0.36
23	3	5		0.19	0.16	0.77	102	6	5		0.47	0.37	0.54
24	3	5		0.48	0.14	0.91	103	6	5		0.45	0.40	0.76
25	3	5		0.34	0.18	0.84	104	6	5		0.30	0.53	0.34
27	4	6	1	0.44	0.40	0.85	106*	6	6	1	-0.10	0.37	0.31
28	4	4	1	0.55	0.18	0.75	107	6	4	1	0.51	0.16	0.80
29	4	6	1	0.30	0.38	0.48	108	6	6	1	0.29	0.23	0.72
30	4	6	1	0.49	0.13	0.74	109	6	6	1	0.56	0.24	0.75
32	4	1	3	0.43	0.10	0.87	110	6	6	1	0.42	0.48	0.76
34	4	5		0.17	0.10	0.34	111	6	6	1	0.29	0.62	0.45
35	4	5		0.14	0.13	0.36	112	6	1	3	0.58	1.08	0.69
36	4	5		0.28	0.11	0.56	113	6	4	1	0.52	0.22	0.85
37	4	5		0.42	0.28	0.58	114	6	1	3	0.26	0.21	0.54
38	4	5		0.44	2.11	0.53	115	6	1	3	0.47	0.21	0.80

Mean Item-Total Corr.: 0.39 Mean p-Value: 0.67

\* Item removed from calibration.

**Table 76. Constructed-Response Item Analyses, English Grade 10 Reading**

Item #	Part	Session	CS	SA	Item- Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
7		3	1	1	0.36	55.69	25.60	11.87			6.83	0.25
10		3	6	1	0.49	13.79	31.13	32.64	15.18		7.27	0.47
14		3	1	4	0.61	11.88	27.45	13.50	24.01	18.80	4.36	0.50
15		3	6	4	0.60	24.66	42.97	25.89			6.48	0.47
31		4	1	1	0.59	27.35	14.89	30.14	23.88		3.74	0.49
33		4	4	1	0.60	20.88	24.54	36.87	13.94		3.78	0.47
39		4	1	2	0.36	51.40	23.90	16.61	1.38		6.72	0.20
47		4	1	2	0.69	32.69	17.46	42.94			6.91	0.52
50		4	4	2	0.56	21.17	47.50	21.10	3.52		6.71	0.33
51		4	5		0.61	18.99	14.46	29.24	30.82		6.49	0.55
94		6	1	2	0.60	41.72	26.66	13.41	13.02		5.19	0.31
100		6	4	2	0.62	17.72	45.15	29.41			7.72	0.52
105		6	6	1	0.43	69.46	15.66	8.70	1.25		4.92	0.12
116		6	4	1	0.64	6.65	7.08	22.10	59.60		4.58	0.77

Mean Item-Total Corr.: 0.55    Mean p-Value: 0.43

**Table 77. Multiple-Choice Item Analyses, English Grade 10 Writing**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
52	5	3	8	0.52	0.04	0.67	72	5	2	5	0.52	0.50	0.83
53	5	3	8	0.23	0.09	0.71	74	5	2	5	0.52	0.16	0.82
54	5	3	8	0.29	0.34	0.50	75	5	2	7	0.41	0.27	0.75
55	5	3	8	0.33	0.23	0.51	76	5	2	5	0.32	0.22	0.61
56	5	3	8	0.39	0.85	0.39	77	5	2		0.52	0.24	0.73
57	5	3	7	0.57	0.14	0.86	78	5	2	5	0.34	0.22	0.65
58	5	3	7	0.38	0.23	0.60	79	5	2	5	0.49	0.26	0.80
59	5	3	7	0.52	0.36	0.75	80	5	2	5	0.54	0.16	0.87
60	5	3	7	0.41	0.36	0.53	81	5	2		0.43	0.42	0.87
61	5	3	7	0.57	0.18	0.82	82	5	3	8	0.42	0.18	0.58
62	5	3	7	0.39	0.23	0.77	83	5	3	8	0.45	0.29	0.49
63	5	3	7	0.50	0.75	0.72	84	5	3	8	0.48	0.35	0.66
64	5	3	7	0.40	0.58	0.58	85	5	2		0.44	0.27	0.72
65	5	3	7	0.50	0.16	0.72	86	5	2		0.43	0.27	0.94
66	5	3	7	0.46	0.23	0.79	87	5	2		0.44	0.25	0.94
67	5	3	7	0.35	0.51	0.49	88	5	2		0.45	0.30	0.93
68	5	3	7	0.29	1.78	0.46	89	5	2		0.50	0.32	0.80
69	5	3	7	0.42	2.09	0.49	90	5	3	7	0.57	0.29	0.76
70	5	3	7	0.44	0.22	0.63	91	5	3	7	0.35	0.33	0.61
71	5	2	5	0.21	0.28	0.57	92	5	3	7	0.37	0.34	0.34

Mean Item-Total Corr.: 0.43 Mean p-Value: 0.68

**Table 78. Constructed-Response Item Analyses, English Grade 10 Writing**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
1		1	2	6	0.22	3.11	96.89				0.00	0.97
2	A	2	3	7	0.24	89.23	9.28				1.50	0.09
2	B	2	3	8	0.34	30.21	68.29				1.49	0.68
2	C	2	3	7	0.47	40.83	57.68				1.49	0.58
2	D	2	3	8	0.48	30.88	67.63				1.49	0.68
2	E	2	3	8	0.33	41.88	56.63				1.49	0.57
2	F	2	3	7	0.47	37.61	60.90				1.49	0.61
3	A	2	2	6	0.70	0.82	6.65	35.26	50.07	7.01	0.19	0.64
3	B	2	2	6	0.71	0.10	7.14	36.30	50.23	6.02	0.20	0.64
3	C	2	3	6	0.62	0.25	29.77	69.79			0.19	0.85
26		5	2	5	0.62	0.70	5.24	51.58	30.26	7.45	4.77	0.57
73		5	2	5	0.53	0.26	4.64	39.75	34.87	18.04	2.44	0.65
93		5	2	5	0.61	0.63	12.20	54.28	23.20	6.80	2.90	0.54

Mean Item-Total Corr.: 0.49 Mean p-Value: 0.62

**Table 79. Multiple-Choice Item Analyses, English Grade 10 Mathematics**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	3		0.40	0.06	0.61	32	2	1		0.27	0.41	0.26
2	1	1		0.49	0.22	0.33	33	2	2		0.39	0.45	0.55
3	1	4		0.31	3.82	0.28	34	2	3		0.28	0.48	0.55
5	1	1		0.43	0.20	0.72	36	2	2	1	0.58	0.25	0.56
6	1	4		0.26	0.16	0.48	37	2	1		0.34	0.36	0.69
7	1	3		0.28	0.08	0.74	38	2	2		0.44	0.31	0.63
9	1	3	2	0.19	0.14	0.36	39	2	1		0.56	0.40	0.54
10	1	4		0.36	0.27	0.11	41	3	2		0.40	0.21	0.45
11	1	2	1	0.49	0.09	0.62	42	3	1		0.50	0.20	0.37
13	1	4		0.29	0.50	0.30	43	3	4		0.27	0.49	0.60
14	1	3	2	0.16	0.23	0.25	45	3	3	2	0.34	0.54	0.43
16	1	1		0.42	0.34	0.60	46	3	3	1	0.40	0.21	0.76
17	1	3		0.32	0.21	0.85	47	3	1		0.24	0.95	0.43
18	1	3		0.30	0.34	0.46	49	3	2	1	0.38	0.21	0.18
19	1	3	2	0.53	0.32	0.30	50	3	4		0.31	0.43	0.43
21	2	4		0.42	0.29	0.26	51	3	2		0.55	0.39	0.47
22	2	1		0.09	0.48	0.35	53	3	2		0.47	0.63	0.52
23	2	4		0.23	0.11	0.44	55	3	3	2	0.38	0.58	0.54
24	2	1		0.50	0.17	0.44	56	3	4		0.33	1.01	0.29
26	2	1		0.36	0.33	0.18	57*	3	1		0.01	1.14	0.39
28	2	2		0.47	0.24	0.30	58	3	2		0.39	0.94	0.55
29	2	2		0.43	0.41	0.66	59	3	2		0.53	0.91	0.37
31	2	4		0.22	0.35	0.50							

Mean Item-Total Corr.: 0.36 Mean p-Value: 0.46

\*Item removed from calibration.

**Table 80. Constructed-Response Item Analyses, English Grade 10 Mathematics**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
4		1	3		0.57	52.19	37.68	8.82			1.30	0.28
8		1	1		0.65	60.90	21.49	9.65	4.64		3.32	0.18
12		1	1		0.61	18.30	50.47	28.74			2.49	0.54
15		1	2	1	0.59	7.74	25.53	28.63	37.67		0.43	0.65
20		1	2		0.79	40.24	29.75	8.09	11.64	6.29	3.99	0.27
25		2	2		0.61	68.10	6.87	20.84			4.19	0.24
27		2	3		0.66	58.41	21.81	3.56	14.49		1.72	0.24
30		2	3	2	0.47	31.61	45.51	20.81			2.07	0.44
35		2	4		0.52	11.73	24.52	57.73	5.65		0.37	0.52
40		2	3	1	0.67	3.74	33.33	37.89	13.31	10.03	1.71	0.47
44		3	4		0.67	60.75	21.33	12.55			5.37	0.23
48		3	2	1	0.70	41.79	28.07	6.34	20.98		2.81	0.35
52		3	2	1	0.59	35.88	42.23	15.86			6.03	0.37
54		3	4		0.51	43.23	48.10	1.48	1.80		5.39	0.19
60		3	4		0.67	47.75	36.29	8.38	1.55	0.90	5.13	0.15

Mean Item-Total Corr.: 0.62 Mean p-Value: 0.34

**Table 81. Multiple-Choice Item Analyses, English Grade 10 Science**

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	2	4	0.55	0.04	0.47	43	2	4		0.33	0.11	0.75
2	1	1	1	0.46	0.04	0.85	44	2	3		0.50	0.27	0.51
3	1	4	5	0.27	0.10	0.47	45	2	3		0.37	0.56	0.41
4	1	1	2	0.44	0.05	0.42	47	2	3		0.29	0.14	0.30
5	1	4	5	0.45	0.10	0.64	48	2	2	4	0.40	0.24	0.36
6	1	1	1	0.18	0.08	0.38	49	2	3		0.41	0.16	0.90
7	1	2	4	0.21	0.10	0.53	51	2	2	3	0.33	0.13	0.41
8	1	1	1	0.30	0.10	0.31	52	2	4		0.14	0.21	0.24
9	1	3		0.46	0.09	0.77	54	2	3		0.27	0.20	0.47
10	1	4		0.47	0.14	0.78	55	3	4		0.14	0.22	0.19
11	1	1	1	0.36	0.13	0.41	56	3	3		0.44	0.06	0.60
12	1	1	1	0.49	0.09	0.87	57	3	2	3	0.33	0.11	0.39
13	1	1	2	0.48	0.07	0.63	59	3	4	5	0.26	0.13	0.56
15	1	3		0.19	0.09	0.40	60	3	2	4	0.33	0.12	0.59
16	1	2	3	0.36	0.09	0.42	61	3	1	2	0.45	0.12	0.78
17	1	1	2	0.48	0.12	0.74	62	3	4	5	0.55	0.21	0.81
18	1	3		0.44	0.13	0.63	64	3	1	1	0.46	0.18	0.73
19	1	3		0.46	0.31	0.56	65	3	1	1	0.52	0.18	0.72
20	1	1	1	0.44	0.13	0.80	66	3	3		0.21	0.19	0.79
28	2	1	1	0.31	0.10	0.96	67	3	2	3	0.31	0.21	0.75
30	2	1	1	0.52	0.09	0.83	68	3	4		0.48	0.37	0.66
31	2	1	1	0.42	0.10	0.77	70	3	3		0.37	0.14	0.46
32	2	1	2	0.49	0.13	0.64	72	3	2	3	0.45	0.21	0.47
33	2	1	2	0.42	0.13	0.69	73	3	2	4	0.43	0.17	0.72
34	2	4	5	0.29	0.13	0.32	75	3	4	5	0.47	0.30	0.54
36	2	2	4	0.34	0.22	0.43	76	3	1	2	0.46	0.22	0.76
37	2	1	1	0.44	0.15	0.70	79	3	4		0.01	0.17	0.25
38	2	4		0.41	0.12	0.83	80	3	1		0.38	0.18	0.41
39	2	2	4	0.36	0.17	0.80	81	3	1	1	0.47	0.13	0.66
41	2	2	4	0.56	0.21	0.56	82	3	1	1	0.50	0.13	0.72

Mean Item-Total Corr.: 0.39 Mean p-Value: 0.59



**Table 82. Constructed-Response Item Analyses, English Grade 10 Science**

Item #	Part	Session	CS	SA	Item-Total Corr.	Percent of Students Obtaining Score Level					Omit %	p-Value
						0	1	2	3	4		
14		1	1	1	0.53	20.70	71.67				7.63	0.72
21		1	1	1	0.36	66.20	30.65				3.15	0.31
22		1	1	2	0.60	12.48	6.10	14.56	35.83	29.38	1.65	0.65
23		1	1	2	0.57	21.83	35.26	38.37			4.54	0.56
24		1	1	1	0.38	59.51	36.67				3.83	0.37
25		1	1	2	0.38	66.35	29.19				4.47	0.29
26		1	1	1	0.31	58.96	28.49	8.57			3.98	0.23
27		1	1	2	0.26	70.60	25.94				3.46	0.26
29		2	4	5	0.52	34.92	39.98	23.22			1.88	0.43
35		2	1	2	0.45	18.21	35.99	41.85			3.95	0.60
40		2	2		0.46	12.93	29.37	54.17			3.53	0.69
42		2	2	3	0.48	62.73	24.26	9.19			3.83	0.21
46		2	3		0.44	71.25	21.90	5.09			1.76	0.16
50		2	4	5	0.60	12.23	24.56	59.18			4.03	0.71
53		2	1	2	0.48	33.90	62.24				3.85	0.62
58		3	3		0.50	66.57	21.01	7.12			5.31	0.18
63		3	3		0.48	62.06	13.49	9.12			15.3	0.16
69		3	4		0.40	74.27	23.93				1.80	0.24
71		3	4	5	0.52	10.17	38.85	45.29			5.70	0.65
74		3	2	3	0.56	43.26	40.49	13.96			2.29	0.34
77		3	4		0.40	68.65	26.52				4.83	0.27
78		3	2	4	0.67	52.72	16.50	25.85			4.92	0.34
83		3	3		0.42	10.27	60.41	28.18			1.13	0.58

Mean Item-Total Corr.: 0.47 Mean p-Value: 0.42

**Table 83. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 English Reading**

Item	a	b	c	Fit-Z
1	0.80914	-1.3817	0.1657	45.32
2	0.60823	-1.2610	0.2000	10.48
3	1.10214	-1.2455	0.2517	7.65
4	0.75126	0.1023	0.1168	24.90
5	0.93326	-1.6484	0.0630	6.82
6	1.01351	-1.7012	0.1155	11.07
8	0.88031	0.1048	0.4648	13.35
9	0.74192	1.5762	0.2546	16.79
10	1.06562	-1.5120	0.1113	4.45
11	0.83619	-0.9700	0.1259	7.89
13	0.95402	0.9570	0.2618	36.79
14	0.46767	-1.7845	0.0000	14.79
16	0.91240	-1.5093	0.1657	22.11
17	1.19436	0.5104	0.2097	85.49
19	0.81826	-0.9830	0.1443	6.64
20	0.98404	-1.7807	0.0538	18.27
23	0.37213	-0.0107	0.0642	6.53
24	0.75999	-0.4021	0.1913	8.42
25	0.80326	-0.4394	0.2013	8.63
26	1.04619	-0.2018	0.1483	25.89
28	0.60282	-1.6872	0.1657	17.21
29	1.04805	-0.5040	0.2225	16.88
30	0.87201	-1.0382	0.1615	7.00
31	0.73574	-1.9638	0.1657	170.96
32	0.87861	-0.5306	0.2321	10.60
33	1.17877	-1.3554	0.1404	10.03
34	0.70571	-0.4122	0.2190	6.57
35	0.43351	-0.4545	0.2000	46.76
37	1.28949	0.9273	0.2402	55.62
38	0.54339	0.5078	0.2748	3.43
39	1.30542	-1.2667	0.2370	6.02
40	0.47070	-0.5942	0.2247	18.25

M1=62.4851, M2=564.9636, N=56019, Critical Z=149.38

**Table 84. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 English Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
7		0.60489	1.4902	-1.6947			39.87
12		0.51718	-1.5852	0.5275	-0.4301	-0.5851	97.06
15		0.53171	-0.1030	-0.2367	-1.1083		58.84
18		0.46036	-0.1293	-0.3044			49.02
21		0.76125	-0.8511	-0.2417			17.82
22		0.60245	-0.0897	0.8459			57.01
27		0.61669	-0.6345	-1.4834	-0.7019		21.61
36		0.40545	0.4469	3.1822			61.92

M1=62.4851, M2=564.9636, N=56019, Critical Z=149.38

**Table 85. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Spanish Reading**

Item	a	b	c	Fit-Z
3	0.95706	1.3690	0.1216	0.67
4	0.45880	-0.3743	0.2000	0.32
5	0.49947	1.9684	0.1591	0.74
6	0.66229	2.0814	0.1384	1.90
7	0.87369	1.5736	0.1327	0.80
9	0.53038	0.6686	0.1737	1.03
10	0.72674	0.2878	0.3093	-0.58
11	0.68013	-0.3671	0.2000	-1.15
12	0.62321	0.4953	0.2188	0.61
13	0.85259	1.4294	0.1766	-1.15
14	0.12236	6.9192	0.2000	4.77
15	0.73188	-0.9464	0.2000	-0.27
16	0.73373	-1.6201	0.2000	0.11
18	0.57412	-0.9410	0.2000	1.19
19	0.80338	-0.7700	0.2000	0.06
20	0.84427	-0.5233	0.1634	4.72
21	1.76471	-1.7425	0.2000	-0.20
22	0.85694	-0.2384	0.2466	0.11
23	1.21998	-1.1238	0.2000	0.28
24	0.78803	-1.5840	0.2000	1.48
27	0.73312	-1.8226	0.2000	1.40
28	0.78333	-0.7188	0.1670	0.88
29	0.43977	-1.0675	0.2000	1.68
30	0.71310	0.3645	0.2000	0.12
31	0.93815	0.0186	0.2463	-0.53
33	0.56379	-0.0031	0.2000	2.36
34	0.51682	1.1083	0.2658	-0.59
35	0.22181	4.4218	0.2000	-0.87
37	1.22327	-0.6719	0.1379	-0.26
38	0.74655	-0.3824	0.2000	-0.85
39	1.36380	0.2157	0.2780	1.16
40	0.74525	0.0730	0.1923	-1.19

M1=37.2445, M2=522.2120, N=1535, Critical Z=4.09

**Table 86. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Spanish Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.46170	0.7834	-0.8005	-0.4221		4.48
2		0.69753	0.7640	-0.6721	-1.3314		-0.14
8		1.08143	-0.7262	0.1431			-0.02
17		0.54091	-0.4060	-0.1657	-0.2534		1.61
25		0.84543	-0.9370	-0.5400			1.88
26		0.72597	0.6286	0.1147			2.45
32		0.70718	-0.5536	0.1830	1.8979		2.68
36		1.02802	-0.5088	0.1023			3.42

M1=37.2445, M2=522.2120, N=1535, Critical Z=4.09

**Table 87. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 English Writing**

Item	a	b	c	Fit-Z
2	0.53844	-0.3960	0.2656	3.22
3	0.98181	-0.7443	0.1766	12.71
4	0.88435	0.2484	0.4808	12.22
5	1.04926	-0.6224	0.2461	12.17
6	1.13363	-0.9934	0.3480	17.46
7	0.74167	-1.5851	0.2000	14.61
8	1.05227	-0.8894	0.2402	10.42
9	0.99199	-1.2841	0.2505	5.50
10	0.82427	0.2295	0.1744	19.30
11	0.51808	-1.5521	0.2154	3.56
12	0.59790	-1.8355	0.2000	12.70
13	0.82990	0.7372	0.1489	17.80
15	0.90479	-0.5103	0.1353	6.28
16	0.82074	-2.1966	0.2000	3.70
17	0.63973	-0.6825	0.1185	3.82
18	1.00332	-0.1293	0.2547	11.69
19	0.78022	-2.0852	0.1643	2.46
20	1.13145	-1.8139	0.2829	1.60
21	0.92257	-1.5727	0.2023	4.34
22	0.64673	-1.7623	0.2000	50.21
23	0.77485	-1.7494	0.2000	7.73
24	0.76665	-1.3483	0.2313	2.73
25	1.03327	-0.8220	0.2906	9.21
26	0.59553	-1.6021	0.2283	1.89
27	0.66405	0.2870	0.2506	6.89
29	0.90540	-1.6131	0.2487	1.70
30	0.85934	-2.0165	0.2000	2.99
31	0.93017	-1.4836	0.2000	2.60
32	1.05323	-1.6672	0.2239	8.51
33	0.92257	-2.0251	0.2000	2.59
34	0.86766	-0.7096	0.2548	2.45
35	0.82838	1.0420	0.3141	14.17
36	0.58588	-0.6459	0.0557	81.77
37	1.32250	-0.8813	0.1498	9.41
38	1.14261	-0.9405	0.2270	20.70

M1=43.9152, M2=469.7298, N=55086, Critical Z=146.90

**Table 88. Item Parameter and Fit Summary,  
Constructed-Response Items, Grade 3 English Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1	A	1.19741	0.7951				18.86
1	B	0.82573	-0.4240				28.66
1	C	1.05524	-1.1700				3.73
1	D	0.37649	-0.8890				121.50
1	E	0.87951	-1.6444				36.64
1	F	1.27228	-1.4996				13.05
14	A	1.58669	-3.6816	3.4798			57.85
14	B	1.87474	-3.9615				18.65
14	C	1.74344	-1.4413				6.90
14	D	1.87810	-2.4808				8.69
28	A	1.36141	-4.4709	2.5369			78.08
28	B	2.01429	-5.3791				4.40
28	C	1.71472	-1.9487				5.41
28	D	1.85904	-2.9180				6.12
39	A	1.75042	-4.7570	4.5798			49.26
39	B	1.97798	-4.9166				6.37
39	C	1.68238	-1.3873				7.07
39	D	1.82136	-2.7675				9.16

M1=43.9152, M2=469.7298, N=55086, Critical Z=146.90

**Table 89. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Spanish Writing**

Item	a	b	c	Fit-Z
1	0.54904	-2.1124	0.2000	-0.19
2	0.90293	-1.5334	0.2000	-0.27
3	0.94910	-1.8898	0.2000	-0.44
5	0.63614	-0.2111	0.2000	0.31
6	0.74015	-1.3455	0.2000	-0.37
7	0.54249	-1.0403	0.2000	-0.33
8	0.87625	0.4582	0.2920	-0.92
9	1.32912	0.2795	0.2648	1.02
10	0.76232	-2.6768	0.2000	-1.17
11	0.71607	-1.7894	0.2000	-0.49
12	1.24263	-2.0637	0.2000	-0.08
13	0.61698	-1.0806	0.2000	2.19
14	0.51686	-1.5169	0.2000	-0.58
15	0.68561	-1.0089	0.2000	0.33
17	0.78064	-1.0404	0.2000	1.75
18	1.11185	1.6418	0.1906	0.46
19	1.74927	1.4624	0.2686	1.40
20	0.81655	-0.1669	0.2685	1.45
21	0.50760	-1.0384	0.2000	0.17
22	0.93744	0.1956	0.2700	-0.63
23	0.77553	-0.8410	0.2000	2.04
24	0.49438	-0.6673	0.2000	0.95
25	0.91353	-0.9804	0.2000	0.79
26	0.70446	0.8290	0.1691	0.70
28	0.65943	-0.6415	0.2003	3.71
29	0.95942	-1.7531	0.2000	2.07
30	0.85790	-1.5719	0.2000	-1.53
31	0.79015	-1.0406	0.2000	-0.06
32	0.62303	-0.1505	0.1829	0.31
33	0.69468	-0.4096	0.2131	0.28
34	0.90280	-2.2070	0.2000	-0.40
35	0.89478	-2.3237	0.2000	-0.53
36	0.87159	-0.6447	0.1808	0.39
37	0.62172	0.2799	0.1758	-0.71
38	0.54726	-1.3218	0.2000	1.00

M1=59.1094, M2=507.7904, N=1557, Critical Z=4.15

**Table 90. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 3 Spanish Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4	A	1.06388	-1.7091				-0.71
4	B	0.92607	1.1339				-0.20
4	C	1.07964	-0.7695				-1.13
4	D	0.97927	-0.6824				2.01
4	E	1.02712	-0.4203				2.70
4	F	0.78648	-1.6268				1.07
16	A	0.92404	-2.3387	0.5139			0.34
16	B	1.16217	-1.8588				1.59
16	C	1.67823	-2.4149				-0.11
16	D	1.63079	-3.4395				-0.75
27	A	0.95677	-1.0223	1.1111			5.70
27	B	1.58082	-1.3768				-0.40
27	C	1.79018	-1.7419				0.25
27	D	1.72855	-2.6147				-0.75
39	A	0.82526	-2.4731	0.7122			0.23
39	B	1.23033	-1.5794				-1.52
39	C	1.25290	-1.3602				-0.70
39	D	1.31008	-3.4654				1.71

M1=59.1094, M2=507.7904, N=1557, Critical Z=4.15

**Table 91. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 3 English Mathematics**

Item	a	b	c	Fit-Z
1	0.59116	-2.1360	0.1159	3.90
2	1.06979	-2.2414	0.2499	4.88
3	0.71353	-1.7953	0.1661	30.40
4	0.64755	-0.8462	0.1024	1.44
5	0.92759	-1.6203	0.1576	1.56
7	0.45413	-2.6947	0.2000	23.02
8	0.58583	-4.1410	0.2000	1.88
9	0.91966	0.0039	0.3754	5.04
11	0.69422	-1.8630	0.4148	6.31
12	0.76616	-2.8637	0.1661	32.21
13	0.85128	-0.8905	0.2628	5.43
15	0.92202	-1.4855	0.0625	2.99
16	0.78253	-1.9971	0.1280	0.57
17	0.71623	-0.0013	0.0501	4.05
18	0.85271	0.1998	0.0990	10.87
19	1.06459	-0.7387	0.2161	4.49
21	0.50341	-2.0605	0.1266	0.07
22	0.96772	1.1937	0.1966	21.77
23	0.81585	-0.5358	0.2085	6.89
24	0.95395	-0.0343	0.1555	10.88
25	0.62379	-1.8906	0.2000	6.72
26	0.91927	-0.1776	0.0393	15.02
27	1.02076	-2.1731	0.2364	3.76
28	0.67490	-3.1131	0.2000	8.26
29	0.75853	-2.7950	0.2000	3.05
30	0.83697	-0.0362	0.2594	3.59
32	0.90801	-1.5461	0.1900	2.17
33	0.71193	-2.1474	0.0988	0.42
35	0.99017	-2.0877	0.2693	7.53
36	1.13244	-1.8770	0.2688	5.94
37	1.10011	-1.3930	0.0584	75.19
39	0.80447	-1.2317	0.1313	2.75

M1=71.8982, M2=466.2391, N=51851, Critical Z=138.27

**Table 92. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 3 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
6		0.82938	1.1777	-0.9309			27.67
10		0.96695	-2.2824	-0.2827			131.02
14		0.96560	-0.6110	-0.2170			32.22
20		0.75742	-2.9206	-0.7460	-0.0466		15.54
31		1.10807	-0.6600	-1.0901			12.80
34		1.31293	-1.6652	0.1431			24.38
38		0.88110	-2.1573	-0.7255			13.75
40		1.15304	-4.0951	-0.9118	0.1994		27.81

M1=71.8982, M2=466.2391, N=51851, Critical Z=138.27



**Table 93. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 English Reading**

Item	a	b	c	Fit-Z
4	0.45067	-2.1779	0.2000	59.40
5	1.23679	0.0319	0.3036	10.08
6	0.74791	-0.3753	0.1867	7.34
7	1.01221	-0.4948	0.2235	3.73
8	0.85988	0.3937	0.1699	19.44
9	0.70186	-1.7247	0.1808	36.23
10	0.86414	-2.0082	0.1621	11.75
12	0.86552	-0.8382	0.0441	87.59
13	1.00347	1.7386	0.1731	89.79
14	1.18410	-0.2596	0.2521	7.99
15	0.72791	0.0771	0.1644	7.27
16	0.96038	-0.1567	0.2085	11.67
19	0.80588	-0.7847	0.1468	12.62
20	0.80076	-0.0540	0.2098	5.24
21	0.72269	-1.1427	0.1639	6.11
22	0.40261	-0.5700	0.2000	2.26
24	1.34784	0.2269	0.2367	28.04
25	1.25763	-1.6436	0.2744	6.52
26	0.79720	-0.4983	0.3825	15.21
27	1.23689	-0.3099	0.2091	16.72
28	1.33207	-0.7884	0.1983	2.34
31	0.41820	-0.2936	0.1049	8.29
32	0.70662	-1.0578	0.1840	-0.10
33	0.80670	-1.0905	0.1627	2.41
34	0.98651	-0.7301	0.1655	12.26
35	0.89044	0.8423	0.2746	8.27
36	0.58677	-0.8883	0.1170	11.51
37	1.05784	-0.4024	0.2121	7.88
38	0.68486	-1.7545	0.1493	5.61
39	0.82221	1.1953	0.1685	12.25
41	1.20896	-0.4391	0.2390	13.50
42	0.85705	-0.7257	0.1641	0.13
43	0.90405	0.5655	0.1689	9.17
44	0.50784	-1.1210	0.2000	108.30
46	0.46671	-0.8895	0.2000	33.50
47	0.71127	-1.8173	0.0971	8.16
49	0.74540	0.6338	0.1118	9.22
50	0.88330	-0.3832	0.1719	16.61
94	0.73474	-1.5938	0.0696	2.80
97	0.49317	-1.3432	0.2000	6.38
98	0.41328	-0.7024	0.2000	78.01
99	0.62218	-1.4060	0.1808	38.42
100	0.79995	-2.4168	0.2000	12.18
101	0.97728	0.1509	0.2043	5.93
102	1.07210	-1.3827	0.2420	3.55
104	0.95697	-1.9983	0.2000	4.60
105	0.57067	-1.8789	0.2000	19.45
106	0.92471	-0.7683	0.1892	1.28
107	1.01320	-1.0735	0.1838	3.14
108	0.91935	-1.5693	0.1641	24.54

continued

**Table 93. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 English Reading (Concluded)**

Item	a	b	c	Fit-Z
110	1.45881	-1.0451	0.1929	3.26
112	0.97519	-0.8007	0.1530	3.11
113	1.65496	-0.8584	0.2893	3.30
114	0.90433	-0.8071	0.1982	10.46
115	1.67242	2.0623	0.1837	72.06
116	0.97085	-0.0917	0.1883	6.34

M1=59.4390, M2=592.0156, N=56150, Critical Z=149.73

**Table 94. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 English Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
11		1.13286	-2.1973	1.7393	2.6234		96.12
17		0.75854	-1.1127	0.9601	2.9068		111.69
18		0.42417	-0.4015	-0.2612	0.5162		19.99
23		0.41367	0.1547	3.4357			48.84
29		0.60069	-0.9997	-0.4910			25.30
30		0.54424	-0.3984	0.9568			32.97
40		0.76579	-1.2627	0.1183	2.6249		82.28
45		1.00003	0.2899	1.2346			14.96
48		0.55409	-0.7446	-0.6087	0.8200	0.1330	19.04
95		1.39353	-2.2726	-1.4325			6.66
96		1.19841	-2.6289	0.7542			65.83
103		0.73524	-0.5834	-2.2826			19.30
109		0.93216	-1.2551	0.0918	2.6670		28.70
111		1.46165	0.1129	1.6671			43.45

M1=59.4390, M2=592.0156, N=56150, Critical Z=149.73

**Table 95. Item Parameter and Fit Summary,  
Multiple-Choice Items, Grade 4 Spanish Reading**

Item	Source Year	a	b	c	Fit-Z
4	2004	0.83	0.55	0.18	-0.1
5	2005	1.08	0.40	0.26	-0.4
6	2005	0.37	-0.98	0.20	1.1
7	2004	1.64	1.44	0.27	-0.2
8	2004	0.50	2.47	0.22	0.0
9	2004	0.86	-0.09	0.31	-0.2
10	2004	0.67	0.02	0.30	0.0
11	2004	0.17	-1.09	0.20	-0.6
12	2004	0.24	3.74	0.20	0.9
15	2004	0.26	-1.31	0.20	-1.1
16	2004	0.61	-0.87	0.20	-0.1
17	2004	0.33	-2.10	0.20	-0.2
18	2004	0.65	-0.91	0.20	0.4
19	2004	0.87	-2.42	0.20	-0.1
20	2004	0.14	0.37	0.20	1.3
21	2004	0.91	-0.01	0.18	-0.3
22	2004	0.92	0.25	0.16	-0.1
23	2004	0.57	0.30	0.20	2.9
24	2007	0.58	-0.48	0.20	-0.5
26	2004	0.36	0.36	0.20	0.0
27	2005	1.29	-0.76	0.40	0.2
28	2004	0.46	-0.70	0.20	-1.2
30	2004	0.46	1.17	0.20	-1.4
32	2007	0.74	0.91	0.20	-0.4
35	2004	0.94	-0.95	0.20	-1.5
36	2004	1.19	0.02	0.18	0.6
37	2004	0.87	-1.01	0.20	-0.3
38	2004	0.77	0.92	0.20	0.1
39	2004	0.47	-0.26	0.20	-0.6
40	2004	0.85	-1.09	0.20	-0.4
41	2004	0.75	0.07	0.20	0.1
43	2004	0.79	1.02	0.17	-0.5
46	2004	0.86	-1.13	0.20	-0.5
47	2004	1.39	2.34	0.34	-0.9
48	2004	0.99	1.82	0.27	2.4
91	2004	0.88	-1.58	0.20	-0.7
92	2004	0.58	-0.77	0.20	2.7
93	2005	0.94	-0.07	0.20	0.5
94	2004	0.55	-1.11	0.20	0.5
95	2004	0.80	-1.43	0.20	0.6
96	2005	0.98	-0.24	0.24	0.3
99	2004	0.50	0.62	0.20	0.8
101	2004	0.67	0.49	0.18	-1.1
102	2004	0.95	0.76	0.18	0.3
103	2004	0.81	-1.02	0.20	0.3
104	2004	0.87	-0.03	0.35	0.7
105	2007	0.56	0.06	0.20	-0.3

continued

**Table 95. Item Parameter and Fit Summary,  
Multiple-Choice Items, Grade 4 Spanish Reading (Concluded)**

Item	Source Year	a	b	c	Fit-Z
106	2004	1.09	1.37	0.18	-0.2
107	2004	1.08	0.59	0.24	-0.2
109	2004	0.50	-0.55	0.20	0.1
110	2004	0.51	0.50	0.20	-0.3
111	2004	0.96	-0.50	0.21	1.3
112	2004	0.48	0.09	0.20	1.1
113	2004	0.32	-1.53	0.20	1.7
114	2004	0.70	-0.31	0.21	-1.1
115	2004	0.82	0.19	0.24	-0.3

2004 pre-equated M1= 33.6050, M2= 534.8632, N=523, Critical Z=1.39

2005 pre-equated M1= 39.5116, M2= 550.2315, N=489, Critical Z=1.30

2007 equated M1= 36.1958; M2= 514.4683, N=264, Critical Z=0.70

**Table 96. Item Parameter and Fit Summary,  
Constructed-Response Items, Grade 4 Spanish Reading**

Item	Source Year	f	g1	g2	g3	g4	Fit-Z
13	2004	0.57	-0.60	-0.85	0.97		0.1
14	2004	0.44	0.17	2.84			0.7
29	2004	0.92	-1.39	-0.76	-1.82		-2.0
31	2007	1.13	1.92	1.17			-1.05
33	2004	0.51	-0.10	0.50	0.59		1.2
34	2004	0.82	-0.60	-0.16	-0.21		1.3
42	2004	0.71	0.29	0.84			-0.3
44	2004	0.53	-0.16	-0.41			1.7
45	2007	0.68	0.24	0.39	1.66		-0.65
97	2004	0.51	-0.50	0.36			-0.7
98	2004	0.59	-0.40	0.16	0.37		-1.1
100	2004	0.74	-0.30	0.90			-1.7
108	2004	0.74	-0.47	-1.38			0.5
116	2004	0.45	0.79	-1.94	1.37		1.4

2004 pre-equated M1= 33.6050, M2= 534.8632, N=523, Critical Z=1.39

2007 equated M1= 36.1958; M2= 514.4683, N=264, Critical Z=0.70

**Table 97. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 English Writing**

Item	a	b	c	Fit-Z
52	0.49375	-1.7415	0.2000	13.17
53	1.17966	-1.4513	0.3241	7.01
54	1.03029	-1.6563	0.2462	10.78
55	0.55376	-1.2903	0.1483	1.72
56	0.99298	-1.2635	0.1935	5.70
57	0.87339	-0.1827	0.3602	3.70
58	0.77287	0.3566	0.1767	10.63
59	0.60244	-2.2733	0.2000	3.10
60	0.63609	-1.9121	0.2000	7.62
61	0.49591	-1.0325	0.2000	66.56
62	0.79400	-1.3711	0.1800	0.84
63	0.55742	-0.6019	0.1901	73.73
64	1.09617	-1.2065	0.0999	8.57
66	0.71487	-1.3916	0.1141	4.79
67	0.64922	-0.4489	0.2000	15.38
68	0.62483	-0.0407	0.1385	13.22
69	0.94578	-1.0971	0.0996	2.56
70	0.71300	-1.1861	0.2000	5.14
71	0.91834	-1.9176	0.2000	14.08
72	1.11185	-1.8510	0.2029	12.64
73	0.93760	-0.6431	0.1541	33.21
74	1.01450	-1.1365	0.1161	16.33
75	0.78531	0.3315	0.2235	14.40
76	1.13599	-1.5303	0.2720	1.67
77	1.03138	-0.9815	0.1596	4.61
78	0.93660	-0.1425	0.2180	10.42
79	1.34028	-1.0571	0.2696	5.42
80	1.26244	-0.7243	0.2363	10.16
81	0.92004	-1.4040	0.1238	46.77
82	0.93914	-1.2001	0.1566	13.42
83	1.16456	-0.9923	0.3012	2.95
84	1.42375	-0.8822	0.2062	17.99
85	1.25321	-1.5010	0.2414	3.67
86	1.03197	-1.4558	0.1221	7.87
87	1.12517	-0.4361	0.2217	11.12
88	0.81218	-0.7535	0.1060	3.75
89	0.23700	-0.1435	0.2000	91.53
90	1.03828	-0.4227	0.3131	5.29
91	0.95874	-1.2040	0.1980	8.68
92	0.84886	-0.9216	0.1198	3.86

M1=46.2937, M2=484.3626, N=55303, Critical Z=147.47

**Table 98. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 4 English Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.60204	-3.9762				1.17
2	A	0.51079	-0.5537				94.72
2	B	1.28115	-1.9283				1.12
2	C	0.54974	-0.0786				22.23
2	D	0.81308	-0.6106				30.88
2	E	1.04859	0.7951				4.65
2	F	1.42135	-1.9769				2.96
3	A	1.27128	-3.1929	-3.0128	-0.1575	2.5974	473.24
3	B	1.51480	-6.0355	-3.3963	-0.0700	2.8405	104.95
3	C	1.89977	-6.5077	-3.4058			17.32
51		0.71386	-0.6957	-2.7364	-0.0706	2.7271	339.32
65		0.88781	-2.8813	-2.9006	-0.2736	2.4629	53.29
93		0.92998	-2.7355	-2.1504	0.3764	3.0574	132.85

M1=46.2937, M2=484.3626, N=55303, Critical Z=147.47

**Table 99. Item Parameter and Fit Summary,  
Multiple-Choice Items, Grade 4 Spanish Writing**

Item	Source Year	a	b	c	Fit-Z
49	2004	0.63	-1.77	0.20	0.0
50	2004	0.77	-1.13	0.20	-0.4
51	2004	0.61	-1.44	0.20	0.5
52	2004	0.41	1.19	0.20	-0.1
53	2004	0.73	-2.73	0.20	-1.3
54	2004	0.55	-0.15	0.20	0.9
55	2005	0.56	-1.26	0.20	1.4
56	2004	0.56	-1.38	0.20	1.0
57	2004	0.67	0.91	0.19	-0.7
58	2004	1.01	0.64	0.31	0.9
59	2004	0.65	0.81	0.20	-0.5
60	2004	0.49	0.23	0.20	-0.7
61	2004	1.10	0.64	0.30	-0.2
62	2004	0.59	2.15	0.19	-0.8
64	2004	0.87	0.97	0.24	-0.2
65	2004	1.09	-0.58	0.23	-1.5
66	2004	1.12	0.33	0.35	0.5
67	2004	1.21	0.10	0.26	-0.7
68	2004	1.28	-0.24	0.20	-0.3
69	2004	1.01	0.07	0.19	0.4
70	2004	0.91	0.74	0.20	-0.5
71	2004	0.56	0.45	0.20	2.2
72	2004	0.64	0.31	0.20	-0.1
73	2004	0.63	1.09	0.22	-1.1
74	2004	0.96	-0.16	0.30	3.7
75	2004	0.37	1.69	0.21	-0.5
76	2004	0.63	0.98	0.20	-0.3
77	2004	0.66	1.31	0.23	-1.1
78	2004	1.22	1.17	0.22	-0.8
79	2004	0.23	-0.69	0.20	1.8
80	2004	1.64	1.21	0.26	-1.0
81	2005	0.92	0.48	0.30	-0.9
82	2004	1.27	0.63	0.18	0.3
83	2005	0.52	0.21	0.19	0.8
84	2005	1.02	0.50	0.20	-0.6
85	2004	1.10	0.81	0.19	1.5
86	2004	0.32	2.81	0.20	-0.8
87	2004	0.95	1.37	0.19	-0.1
88	2004	0.77	-0.23	0.20	-0.6
89	2004	0.72	0.65	0.19	-0.5

2004 pre-equated M1= 38.1156, M2= 519.2253, N=526, Critical Z=1.40

2005 pre-equated M1= 36.9687, M2= 524.4168, N=490, Critical Z=1.31

**Table 100. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Spanish Writing**

Item	Source Year	Part	f	g1	g2	g3	g4	Fit-Z
1	2005		0.44	-3.42				-1.7
2	2002	A	1.40	-2.79				-0.9
2	2002	B	1.11	-0.58				-0.2
2	2002	C	0.85	-1.11				-0.1
2	2002	D	0.54	-0.75				-0.1
2	2002	E	1.21	-0.81				0.2
2	2002	F	1.25	0.74				-0.5
3	2005	A	0.66	-0.06	-1.80	-0.33	2.52	1.6
3	2005	B	1.09	-3.73	-2.60	-0.00	3.15	-1.2
3	2005	C	1.14	-4.33	1.14			1.0
25	2005		0.57	0.21	-1.43	0.08	1.90	1.2
63	2007		0.72	-1.65	-1.25	0.99	2.18	-2.6
90	2005		0.46	0.35	-2.18	-0.20	1.00	-1.1

2002 pre-equated M1= 39.9142, M2= 522.7280, N=1,001, Critical Z=2.67

2005 pre-equated M1= 36.9687, M2= 524.4168, N=490, Critical Z=1.31

2007 equated M1= 33.0014; M2= 508.4550, N=264, Critical Z=0.70



**Table 101. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 4 English Mathematics**

Item	a	b	c	Fit-Z
1	0.52286	-2.7452	0.2000	2.91
2	1.12059	-0.6597	0.2880	2.19
3	0.93305	-0.2756	0.1953	3.05
4	0.71887	-2.3798	0.1368	9.56
5	0.59564	-2.5384	0.2000	3.27
7	0.54484	-0.4985	0.2095	2.05
8	0.97697	-0.1419	0.2594	10.80
10	1.23854	0.1360	0.1123	9.23
11	0.64443	-2.7626	0.2000	0.16
12	0.23627	-1.5599	0.2000	0.32
15	1.02869	0.1706	0.2469	10.08
16	0.67584	-0.4923	0.0702	2.22
17	0.64644	-3.4808	0.2000	13.53
18	0.58589	-2.7575	0.2000	100.41
19	0.64972	-3.6042	0.2000	3.48
20	0.90361	-0.7835	0.1193	9.35
21	1.14764	-1.1393	0.0329	21.17
22	0.89606	-1.6559	0.2000	0.55
24	0.79017	-0.9062	0.0347	22.63
25	0.76656	0.4884	0.1651	3.28
26	0.70028	0.2207	0.2059	6.33
28	0.44407	-2.3329	0.2000	6.27
29	0.96434	-2.8749	0.2000	3.08
31	0.68123	-3.3045	0.2000	9.35
32	0.74312	-2.4826	0.1277	0.33
33	0.62449	-2.4639	0.2000	1.07
34	0.65325	-1.4318	0.1270	0.49
35	0.91545	0.0214	0.2450	2.11
36	0.63368	-0.0600	0.0798	1.72
37	0.52840	-0.2678	0.2955	6.78
40	1.26218	-0.3534	0.4986	7.91
41	1.01184	-1.8916	0.1314	1.53
42	1.02525	-2.5010	0.2000	4.12
43	0.80037	-2.3347	0.1117	8.16
44	0.73571	-0.8104	0.2000	7.41
45	1.09044	-1.1761	0.2107	4.44
47	1.07700	-0.2399	0.1370	10.80
48	1.18433	-1.5404	0.2930	7.53
49	0.41437	-4.4954	0.2000	3.75
51	0.50118	-2.3361	0.2000	3.60
52	0.84297	0.3599	0.1834	7.86
53	0.47435	-3.8416	0.2000	7.40
54	1.48643	-0.8409	0.2745	11.69
55	0.87541	-0.0731	0.1233	4.07
57	0.95046	0.1142	0.2453	11.34
58	0.82574	0.3803	0.1313	7.94
60	1.01322	-0.6163	0.2452	8.13

continued

**Table 101. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 4 English Mathematics (Concluded)**

Item	a	b	c	Fit-Z
61	0.72312	-2.7750	0.2000	2.05
62	1.13720	-1.6631	0.0650	16.45
64	1.37911	0.5261	0.1865	39.34
65	0.62691	-1.8464	0.2000	7.82
66	0.91344	-2.4206	0.1083	13.84
67	1.04044	-0.7486	0.1779	1.65
68	1.10386	-0.6167	0.2627	0.56

M1=67.0323, M2=500.7395, N=51273, Critical Z=136.73

**Table 102. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 4 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
6		1.19542	-2.9090	-0.9784			44.31
9		0.66809	-1.8763	-0.8663	-0.2105		11.35
13		0.71778	0.2702	-0.1286			194.77
14		0.73248	-3.3789	-1.6169	-1.5315		19.42
23		0.54584	-1.2056	-1.4091	-0.8880	1.6578	13.30
27		0.65356	-1.7794	-0.7204			87.10
30		0.58974	-1.4527	-0.4489	-1.8812		19.70
38		1.08365	-0.2783	-1.0817	1.1142		23.99
39		1.28654	-0.1053	-0.4857			14.40
46		0.86999	-2.4302	-1.5898	-0.5140	0.3905	34.46
50		0.69677	-1.9260	1.3329			21.16
56		0.76007	-1.2338	-0.6919	-0.1704		9.38
59		0.96772	-0.9742	-1.6986			1.62
63		0.69604	-0.7371	-0.1411	-0.0678		34.44
69		0.58062	-0.2926	-1.1338	0.6365	-1.3064	58.54

M1=67.0323, M2=500.7395, N=51273, Critical Z=136.73

**Table 103. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 5 English Reading**

Item	a	b	c	Fit-Z
4	0.38996	-0.4721	0.2000	24.14
5	0.68973	-1.7167	0.1406	19.93
6	0.30826	-1.7368	0.2000	5.82
7	0.46555	-1.1408	0.1082	3.71
9	0.76515	-0.1651	0.0988	22.46
10	0.62525	-1.1292	0.1955	-0.48
11	0.70077	-1.4927	0.1686	31.99
12	0.86393	0.3739	0.2433	3.30
14	0.61161	-0.2659	0.2000	4.53
16	1.24241	-0.7540	0.2414	5.19
18	1.18445	-0.5054	0.1867	7.19
19	1.14339	2.4697	0.3248	32.55
20	1.14561	0.7270	0.2319	15.32
21	0.99262	-0.8039	0.2146	19.39
22	1.30705	0.0442	0.3026	7.72
23	0.70228	-0.7925	0.0658	77.35
26	0.62585	-0.8379	0.2000	18.89
28	1.37558	0.3308	0.2638	17.64
29	0.57632	-0.0918	0.2321	1.62
30	0.76832	-1.4665	0.1819	0.03
31	0.81428	0.3522	0.3157	8.97
32	0.63061	-1.0552	0.1621	13.63
33	0.86599	-0.8476	0.1763	3.75
34	0.71342	-2.2552	0.2000	7.55
35	0.69916	0.5569	0.1512	3.48
37	0.45854	-0.9794	0.2000	11.15
39	1.13160	-1.1341	0.1361	2.61
40	0.74563	-0.7960	0.2421	4.80
41	0.62533	-0.6410	0.3330	18.94
42	1.10028	-0.9660	0.1933	18.03
43	1.05629	-0.1960	0.1005	7.90
44	0.94421	1.0735	0.2129	7.82
45	0.50783	0.7598	0.2464	35.66
46	1.35979	0.8189	0.3726	133.36
47	0.71092	-0.0455	0.1983	1.49
48	0.63978	0.4078	0.1963	1.06
92	1.07323	-0.9214	0.2015	5.75
93	0.93912	-0.3509	0.3475	10.70
94	0.81811	-0.1623	0.2407	7.62
95	1.02774	-1.0788	0.1703	2.19
96	0.73735	0.4271	0.1791	8.12
97	0.65366	-1.4762	0.1633	2.79
100	0.56894	-0.5928	0.1870	23.91
101	0.87455	0.6338	0.3723	3.15
102	0.81470	-0.6369	0.1305	2.45
103	0.74172	-1.6958	0.1117	16.53
106	0.71050	-1.1048	0.1870	132.71

continued

**Table 103. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Reading (Concluded)**

Item	a	b	c	Fit-Z
107	0.67673	-1.7455	0.1870	37.89
108	0.74863	-2.4521	0.1131	31.49
109	0.88712	-0.1066	0.2269	4.07
110	1.14185	-1.5622	0.2624	1.92
111	0.78993	-2.2971	0.2000	9.76
112	0.76567	-1.1646	0.1112	2.21
113	1.03993	0.2266	0.1961	13.98
114	0.74284	-1.8976	0.0685	9.77
115	0.69294	0.6037	0.1934	2.11

M1=58.5720, M2=620.6066, N=56269, Critical Z=150.05

**Table 104. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 English Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
8		0.49941	-0.8517	-2.0482	-0.7737		37.38
13		0.64019	-0.3653	1.3981			13.84
15		0.85399	-0.9697	-0.8774	-0.6553		28.23
17		0.75266	-0.3023	-0.6163	-1.0221		11.36
24		0.88816	-0.8117	-0.1049			40.91
25		0.99926	0.6083	-1.1128			89.15
27		0.44576	0.7114	-1.1613	-0.0532		67.72
36		0.71856	-1.3910	0.1277	1.9945		55.91
38		1.06288	-0.4493	0.4509	1.3466		66.75
49		0.45734	-1.1113	0.4557			12.90
98		0.60334	0.9045	-0.2648			61.60
99		1.02986	-1.4640	0.2879	1.7484		83.42
104		1.34811	-2.6668	-2.0483			16.25
105		1.11341	-2.5597	0.2832			53.19

M1=58.5720, M2=620.6066, N=56269, Critical Z=150.05

**Table 105. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Writing**

Item	a	b	c	Fit-Z
50	0.68449	-2.5167	0.2000	3.77
51	0.97668	-1.2878	0.3148	4.97
52	1.04695	-1.2896	0.2778	2.68
53	0.56719	2.0741	0.1421	15.92
54	0.66569	-0.4283	0.3221	0.09
55	0.55677	-2.1244	0.2000	26.05
56	0.71585	-1.7513	0.0984	7.49
57	0.85963	-0.5275	0.1802	3.48
58	0.92742	-1.5062	0.1988	4.98
59	0.30202	0.4877	0.2000	1.07
60	0.91923	-2.2099	0.1327	4.00
61	0.41844	-0.4706	0.2000	15.82
62	0.94661	-2.0551	0.1359	2.51
63	0.89327	-0.1537	0.1895	5.83
64	0.72879	-0.6162	0.1321	1.28
65	0.80419	-0.3774	0.2275	1.67
66	0.70172	-0.9179	0.1244	4.24
67	0.43578	-0.8577	0.2000	88.41
68	0.69372	-1.6949	0.1027	3.78
70	0.43142	-0.3520	0.1134	-0.28
71	0.70073	0.1464	0.1136	7.24
72	0.87261	-0.3817	0.2144	7.05
73	0.49709	0.5863	0.1651	1.71
74	0.76148	-0.9624	0.1436	3.77
75	0.59329	-0.0876	0.1248	0.39
76	1.56703	-0.8780	0.2710	14.10
77	1.10817	-0.8095	0.2016	13.87
78	0.67546	-0.8085	0.0947	16.48
79	0.83434	-1.3531	0.1516	14.15
80	0.94067	-1.0049	0.2000	57.85
81	1.10792	-0.8367	0.2095	4.69
82	0.98658	-1.0620	0.2328	3.07
83	0.98074	-0.6306	0.2283	8.62
84	0.41383	1.3469	0.2000	102.13
85	0.80092	-1.1446	0.1207	10.52
86	0.60052	-1.0126	0.1363	0.53
87	0.63954	-0.0911	0.1562	11.85
88	0.66759	-0.6596	0.2000	16.71
89	0.48889	-0.5025	0.0879	17.85
90	0.69063	-0.2905	0.1399	14.77

M1=49.7314, M2=508.4537, N=55833, Critical Z=148.89

**Table 106. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 5 English Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.80730	-5.0343				7.27
2	A	0.74359	0.4980				18.32
2	B	1.37480	0.3510				9.25
2	C	0.82041	-0.3814				10.64
2	D	0.78049	-0.4876				14.34
2	E	1.30289	-0.7603				10.13
2	F	1.01804	0.5315				15.44
3	A	1.06022	-1.7942	-2.7547	-0.4610	1.7006	1135.57
3	B	1.37222	-5.9090	-3.1033	-0.4736	1.9594	60.07
3	C	2.05306	-7.4399	-3.7332			19.52
69		0.87025	-1.6453	-3.9098	-0.7917	2.5817	185.57
91		0.88678	-1.4511	-2.8048	-0.1027	2.1917	429.20
116		0.94463	-2.4045	-3.2225	-0.1107	1.9346	83.24
M1=49.7314, M2=508.4537, N=55833, Critical Z=148.89							

**Table 107. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 5 English Mathematics**

Item	a	b	c	Fit-Z
1	0.45424	-2.4891	0.2000	24.29
2	1.31391	0.7872	0.2414	10.95
4	0.77544	-3.0474	0.2000	3.16
5	0.79005	-1.5724	0.2000	2.60
6	1.05589	-1.5564	0.2546	5.71
7	0.51019	-2.1947	0.2000	12.51
8	0.78429	-0.2111	0.1073	11.24
10	1.04576	-1.6993	0.2000	5.22
11	0.81262	-1.5310	0.1301	2.24
13	0.73984	-2.1724	0.1170	1.98
14	0.93477	0.1978	0.2872	18.44
16	0.73991	0.6159	0.0721	10.61
17	0.77613	-1.2328	0.1874	0.14
18	0.67971	0.0015	0.4069	2.38
19	0.96407	-0.5010	0.2118	1.45
20	0.89769	2.0644	0.4174	3.87
21	0.48059	-2.7678	0.2000	3.06
22	0.78307	-0.8420	0.2140	15.13
24	0.58864	-2.7851	0.2000	4.57
25	0.65442	-2.9692	0.2000	24.13
26	0.86789	-0.9632	0.1585	-0.50
27	1.00668	-0.7741	0.4583	4.37
28	1.13972	-1.0745	0.1098	5.59
30	1.11223	-0.0260	0.1983	10.92
31	0.85069	-2.0194	0.1782	3.02
32	0.33705	-1.9509	0.2000	2.46
34	0.93522	-1.3536	0.0766	5.63
35	1.09270	-0.8687	0.2309	5.80
37	0.91995	-0.9424	0.3047	4.36
38	0.77866	-1.6738	0.0606	11.42
39	0.67842	-0.1924	0.1242	1.81
40	1.00677	-0.8001	0.2200	1.10
41	0.48643	-1.1554	0.0708	7.06
42	0.97314	-1.6303	0.1090	0.76
43	0.48279	-0.4914	0.1782	10.58
45	1.00992	-0.4334	0.0870	51.63
47	0.48583	-2.4846	0.2000	21.19
48	0.76925	-2.0993	0.2000	3.51
49	0.86478	-3.2075	0.2000	21.62
50	0.91839	-0.8955	0.0836	7.62
52	0.63185	-0.4472	0.2359	0.78
53	0.70363	-0.5831	0.2579	1.61
55	0.73894	0.5920	0.0867	2.62
56	0.49324	-1.7947	0.1782	3.09
58	0.83981	-0.4427	0.1950	13.21
59	0.53641	0.5496	0.2680	2.72
61	0.81764	-0.1221	0.2997	5.97

continued

**Table 107. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Mathematics (Concluded)**

Item	a	b	c	Fit-Z
62	0.50490	-1.8378	0.1782	5.10
63	0.75135	-1.6069	0.2000	3.70
64	0.78616	-1.4175	0.1782	95.71
65	0.77749	-0.4802	0.3622	1.98
66	1.19943	-0.3794	0.1398	4.97
67	0.86194	-0.7295	0.1745	3.07
68	0.77623	0.0881	0.1650	4.16

M1=65.5650, M2=536.8737, N=46530, Critical Z=124.08

**Table 108. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
3		0.68639	0.0157	-0.7942			77.25
9		1.25060	-4.1982	-0.6449	0.0707		24.78
12		0.73631	-1.6095	-2.3221			15.86
15		0.97996	-1.8202	-0.9972	1.0242		24.26
23		0.80131	-0.5945	-0.8266	0.1999	-0.0036	75.22
29		1.10892	0.5447	-0.8976			18.22
33		0.57562	-1.0617	0.0477	-0.2923		32.66
36		1.22851	-0.8924	-1.4818			11.57
44		0.55306	-0.8345	-0.7298	-1.0100		29.72
46		0.72759	-3.7842	0.6304	-0.8624	-0.1022	21.94
51		0.82647	-1.2535	0.3623			243.88
54		0.73258	-1.8723	-1.3706	-0.8731		10.94
57		0.89572	-2.0465	-0.7042	0.5918		14.65
60		0.93100	-0.8630	-0.0135			219.38
69		0.85905	-2.0328	-1.5413	-1.1891	-0.4608	17.34

M1=65.5650, M2=536.8737, N=46530, Critical Z=124.08



**Table 109. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Science**

Item	a	b	c	Fit-Z
1	0.77826	-3.3866	0.2000	2.76
2	0.58272	-0.7679	0.2259	3.77
3	0.22251	-3.6201	0.2000	42.74
5	0.38779	0.1439	0.3091	5.52
6	0.61509	-0.1659	0.3749	12.45
7	0.73535	-0.3736	0.1680	2.15
8	0.46205	-0.8392	0.2707	10.53
9	1.03868	-1.1145	0.2379	2.19
10	0.46458	-0.8246	0.1532	16.37
11	0.52694	-0.3759	0.1454	2.65
12	0.58574	-1.0283	0.1396	5.07
13	0.48618	-0.7656	0.3571	11.30
14	1.03656	-0.6728	0.1668	3.59
15	0.89121	-2.9101	0.1971	7.40
16	0.45339	-3.8283	0.2000	6.90
17	0.84690	0.7937	0.3126	12.08
18	0.64096	-0.9749	0.1991	10.86
19	0.84910	-1.1317	0.1713	4.37
20	0.59876	-0.5862	0.2015	3.81
26	0.57265	-2.2438	0.2000	26.54
27	0.54079	-4.7482	0.2000	5.25
29	0.48597	-1.5452	0.2000	27.83
30	0.79265	-2.8765	0.2000	2.85
31	0.63839	-2.5976	0.2000	23.66
32	0.66801	-3.6727	0.2000	21.70
34	0.45679	-0.5119	0.1790	7.53
35	0.79060	-2.8444	0.1971	6.99
36	1.04757	-1.7703	0.2000	3.95
38	0.94019	-1.1420	0.4965	15.02
39	0.86671	-1.3154	0.2374	1.10
40	0.94014	-0.1315	0.2579	4.76
42	0.36377	0.0927	0.1388	3.32
43	0.81653	-0.4789	0.1743	4.73
44	1.35386	-1.0608	0.2234	7.41
47	0.80145	-3.1008	0.1971	30.91
48	0.56076	-1.1011	0.2526	3.67
49	1.39016	-0.8068	0.2533	8.68
51	0.30459	-0.8848	0.2000	8.61
52	1.09956	-1.1702	0.2816	2.44
54	0.62773	-1.4679	0.2000	12.23
56	0.54976	-0.0571	0.1806	6.35
57	0.81986	-0.9886	0.1831	1.25
59	0.53822	-0.5725	0.2000	12.13
60	0.85468	-1.8514	0.1013	4.17
61	0.55095	-2.7218	0.1971	5.41
62	0.57987	0.0005	0.2172	13.22
63	1.09980	1.0655	0.2753	11.41
65	1.56196	-0.7108	0.1550	10.94

continued

**Table 109. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Science (Concluded)**

Item	a	b	c	Fit-Z
66	0.28891	-0.1164	0.2000	42.67
67	1.08559	-1.1080	0.2576	1.80
70	1.21615	-0.4248	0.2796	5.00
71	0.72632	-2.9496	0.2000	5.69
72	0.44958	-0.2373	0.0576	6.51
73	0.68863	-0.8830	0.2000	15.38
74	1.18643	-0.0464	0.1780	16.11

M1=49.6666, M2=560.5214, N=52296, Critical Z=139.46

**Table 110 Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 English Science**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		0.78117	-3.2497	-0.3592			21.06
21		1.24056	0.6685				39.51
22		1.08148	-1.4906				6.65
23		0.56954	-0.8347	0.6819			90.49
24		1.00989	-0.2463				-0.59
25		0.52031	0.2993	-1.4073			19.48
28		1.01773	0.4344	-0.2280			21.32
33		0.93221	0.3106				9.62
37		0.81808	1.0492				2.14
41		0.77974	-0.1634	2.0414			173.77
45		1.04782	-1.1702	-1.0358			8.24
46		1.03305	-3.2724	-0.6767			17.83
53		0.47274	0.3355	-2.7300			296.14
55		0.82699	-0.3198	0.5885			21.84
58		1.34175	-2.5062	1.0081			40.81
64		0.52879	-2.4825	-1.5979			55.63
68		0.77882	-0.7974	1.0479			125.36
75		0.87559	0.6256	0.2363			170.54

M1=49.6666, M2=560.5214, N=52296, Critical Z=139.46

**Table 111. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 6 English Reading**

Item	a	b	c	Fit-Z
4	0.41516	-1.8541	0.2000	32.01
5	0.53496	-1.5839	0.2000	36.56
6	0.94297	-1.3476	0.2219	14.52
7	1.08741	-1.5129	0.2135	3.52
8	0.85518	-0.9294	0.2359	7.92
10	0.78419	0.6007	0.1470	5.58
11	1.13144	0.9846	0.2680	15.88
12	0.85916	-1.6653	0.1986	13.77
13	0.91089	-0.6113	0.2164	3.05
14	0.61907	2.8412	0.2847	7.84
15	0.58701	1.4346	0.1166	5.12
16	1.20560	-0.2698	0.1315	7.49
17	0.70832	0.4948	0.2135	4.16
18	0.35245	-2.3086	0.2000	26.51
21	0.31905	0.0035	0.2000	74.51
22	1.33890	0.1971	0.1822	15.65
23	0.78605	0.9840	0.2348	20.09
24	0.83679	-0.8391	0.2040	12.12
25	0.81793	1.0564	0.1286	29.60
26	0.89734	1.8469	0.4091	24.55
28	0.59714	-1.0361	0.2000	10.95
30	1.37794	0.0456	0.2861	11.48
31	0.63122	-0.1975	0.2478	1.47
32	0.76931	-1.6307	0.1080	8.56
33	0.86064	-1.3453	0.0546	2.81
34	0.68646	-0.3104	0.2312	2.73
35	1.04893	-0.5813	0.2681	2.99
36	0.84792	-0.0410	0.2346	8.41
41	1.03325	-1.1761	0.0972	4.03
42	0.72979	-0.2614	0.3704	18.57
44	1.41691	-0.8158	0.1642	9.34
45	1.04485	-0.6707	0.2762	2.46
46	0.88950	-0.1130	0.3930	19.78
47	1.42238	-0.6778	0.2363	81.98
48	1.23308	-0.4378	0.2752	3.78
49	1.07903	-0.0382	0.2096	6.49
50	1.24215	1.7674	0.2071	68.97
51	1.44888	-0.3607	0.2007	12.02
52	1.21370	-0.2127	0.1897	5.96
53	1.13954	0.1998	0.1879	10.60
54	1.71357	1.6450	0.1346	55.68
56	0.87681	0.3846	0.1642	6.99
100	0.79300	1.2265	0.2174	22.79
102	0.63204	-0.2491	0.2020	83.93
103	0.98977	-0.7640	0.2133	4.18
104	0.81716	-1.6682	0.1671	10.34
105	0.31693	-0.4238	0.2000	4.33

continued

**Table 111. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 6 English Reading (Concluded)**

Item	a	b	c	Fit-Z
106	0.78586	-1.2278	0.0926	14.38
107	0.80265	1.0536	0.3097	3.30
108	0.67353	-0.7413	0.1239	2.35
110	0.42941	-0.9720	0.2000	34.00
111	1.09724	-0.7649	0.1889	4.82
112	0.55137	0.6815	0.2212	8.60
113	0.70910	-1.4110	0.2000	171.68
114	1.22264	-1.3834	0.2476	9.83
115	0.85348	-2.2964	0.1320	22.00

M1=58.3166, M2=630.2586, N=56241, Critical Z=149.98

**Table 112. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 6 English Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
9		0.86351	0.3592	0.2523			19.44
19		0.43294	1.0162	-1.1525	-0.7789		14.61
20		0.55202	0.6015	0.7036			69.24
27		0.92730	0.3927	-1.4041			70.90
29		0.40283	0.7686	-1.3179	-0.1973		40.62
37		0.63388	-0.0039	0.0428	0.5723		14.02
38		0.90282	-2.2078	2.4195			127.73
39		0.57984	-0.5701	0.0687	0.1290		57.21
40		0.96484	-1.3751	0.0424			249.58
43		1.09976	-0.0833	0.5449	1.5399		49.14
55		1.13389	1.0825	0.9488	2.1103		97.63
99		0.75823	1.0077	0.8729			24.78
101		0.76208	0.5105	0.1032			9.58
109		0.88416	-1.1156	-0.2808	0.9796		45.04

M1=58.3166, M2=630.2586, N=56241, Critical Z=149.98

**Table 113. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 English Writing**

Item	a	b	c	Fit-Z
57	0.75614	-1.8839	0.2000	6.89
58	0.99149	-0.7203	0.2562	7.36
59	0.79412	-1.3496	0.2000	9.81
60	1.12522	-1.4833	0.3127	6.41
61	1.17856	-0.2900	0.2968	7.12
62	1.05916	-0.8187	0.2806	5.09
63	0.68205	-0.8016	0.1308	2.87
64	1.47642	-0.7449	0.1913	14.59
65	0.31509	0.4795	0.2000	47.11
66	0.82013	0.3440	0.2104	5.43
67	0.57113	1.5115	0.3486	3.60
68	1.00404	-1.3746	0.3489	16.97
69	0.76679	0.2715	0.2496	9.72
70	1.24537	-0.2330	0.2468	28.05
71	0.68379	0.8385	0.1290	3.80
72	1.18353	1.1895	0.2280	54.34
73	0.77571	-1.6753	0.2000	6.00
74	1.05482	0.4680	0.2275	8.61
75	1.31195	0.2895	0.2282	16.32
76	0.54375	0.1790	0.2000	12.94
78	0.80145	-1.8889	0.1197	44.08
79	0.49034	-1.0724	0.2304	5.28
80	1.05709	-0.8182	0.1791	5.28
81	0.72491	1.4421	0.1645	21.62
82	0.58542	0.7459	0.2146	1.40
83	0.70299	-0.7330	0.0988	7.59
84	0.96391	-1.2167	0.2244	2.72
85	0.87646	-1.0601	0.1142	9.43
86	0.74797	-0.5403	0.1466	6.17
87	0.36820	1.2231	0.2000	79.10
88	1.40542	-0.9269	0.2072	34.88
89	0.62637	-0.6185	0.0795	17.82
90	1.26610	-0.9827	0.2316	14.40
91	1.11707	0.0355	0.2003	10.46
92	0.65118	-0.4242	0.1340	2.51
93	0.66513	-0.7437	0.0937	6.64
94	1.18124	2.0626	0.2321	36.04
95	0.74026	-1.0104	0.1428	5.37
96	0.44526	2.0556	0.1767	8.02
97	0.78308	0.0775	0.1956	5.03

M1=56.7243, M2=527.7678, N=55788, Critical Z=148.77

**Table 114. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 6 English Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.89121	-5.3788				-0.55
2	A	1.24973	-1.5820				3.85
2	B	1.52816	-1.9746				2.65
2	C	0.62695	-0.0148				2.07
2	D	1.36267	-0.5057				1.98
2	E	1.04497	-1.2092				11.94
2	F	1.65079	-3.0490				2.71
3	A	1.07946	-2.7294	-3.4780	-0.3144	3.0376	167.83
3	B	1.19781	-5.1156	-3.5943	-0.2713	3.2455	18.73
3	C	1.62197	-6.4847	-3.6331			12.29
77		0.69563	-1.2475	-3.4134	-0.8012	1.4014	53.62
98		0.74562	-0.6606	-3.5073	-0.2265	2.4461	239.89
116		0.92831	-2.5803	-2.6454	-0.3956	1.8442	62.17

M1=56.7243, M2=527.7678, N=55788, Critical Z=148.77

**Table 115. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 6 English Mathematics**

Item	a	b	c	Fit-Z
1	1.29302	0.4169	0.2134	2.62
2	0.72482	-0.7208	0.2092	2.42
3	0.55229	-1.8080	0.0910	1.77
4	0.61345	-2.3753	0.1480	5.07
6	0.57989	-1.4405	0.0604	7.70
7	1.49167	-0.4182	0.3496	5.65
9	0.39387	-3.0880	0.2000	2.01
10	1.01180	-1.1427	0.2738	2.43
11	0.64429	0.2514	0.1394	10.07
13	0.69425	0.0331	0.0671	2.90
14	0.69197	-0.8553	0.3228	8.03
15	1.12726	-0.7985	0.4988	11.47
17	0.72262	-1.7805	0.0622	5.98
18	1.46989	-0.0487	0.0911	7.08
19	1.03031	0.1305	0.1775	0.86
21	0.51396	-0.5193	0.2000	85.04
22	0.52932	-2.0463	0.1480	3.23
24	1.30592	-0.4218	0.0881	11.49
25	0.82814	1.5643	0.2612	1.05
26	0.81032	-1.0304	0.2073	0.78
27	0.83574	-1.2851	0.1353	4.57
28	0.97147	0.0544	0.1203	8.62
29	1.37256	-0.5893	0.1255	8.18
31	0.86139	0.6474	0.1774	4.92
32	0.80962	-0.1129	0.1376	5.08
34	1.09205	0.8625	0.1539	9.02
35	0.40423	-1.0385	0.1480	3.27
36	0.64393	-2.7059	0.2000	2.31
38	1.05813	0.3510	0.1439	40.24
39	0.51548	-1.0591	0.0706	4.35
41	0.85443	0.2386	0.0591	3.46
42	0.98693	0.3132	0.0894	4.22
43	0.99358	0.4200	0.2070	2.79
45	0.56437	-2.0178	0.0820	4.45
47	0.85893	-0.1558	0.0666	7.92
49	0.56197	-0.8584	0.2000	24.58
50	0.93112	-0.1428	0.0689	3.42
52	0.53054	-2.5196	0.2000	5.66
53	0.75358	-0.7550	0.2329	1.10
54	1.76471	0.9748	0.3320	58.43
55	0.91532	0.7331	0.1639	32.51
56	0.60812	-1.7615	0.0701	3.79
57	0.52801	-1.0961	0.2000	22.70
58	1.30318	0.4294	0.1269	15.60
59	0.64169	-2.1145	0.1480	11.43

M1=65.2691, M2=548.0388, N=53057, Critical Z=141.49

**Table 116. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 6 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		1.26042	-4.7102	-1.0517	-0.2762		7.06
8		0.72316	-0.2848	-1.3114			154.48
12		0.89405	-0.5782	-0.1945			143.62
16		1.06331	-0.4410	-0.2417	1.4962		180.22
20		0.90157	-2.6226	-2.1044	-1.2148	-0.3393	62.15
23		0.83533	-2.6316	-1.1363			27.04
30		0.98365	-1.2106	0.2447	0.7475		71.73
33		0.53168	-0.9934	-0.7864	-1.2490		52.74
37		0.87314	-0.3844	-1.3773			83.24
40		1.19642	-1.1297	0.4850	0.6506	1.3449	151.05
44		0.91271	-0.6174	-0.0840			26.53
46		0.76672	-1.1071	-0.8059	2.2862		134.80
48		0.84221	0.1795	-0.3445			1465.07
51		0.79273	-0.7538	-0.5079	0.5743		26.53
60		0.78891	-2.3002	-0.4160	-0.6513	0.3071	38.33

M1=65.2691, M2=548.0388, N=53057, Critical Z=141.49



**Table 117. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 7 English Reading**

Item	a	b	c	Fit-Z
6	0.78347	0.7324	0.2724	7.88
7	1.14930	0.4314	0.1839	12.23
8	1.35579	-0.1998	0.1947	13.16
9	0.83544	-1.1579	0.3165	12.43
10	0.88373	-1.3735	0.2292	3.98
11	0.79863	0.9879	0.1053	26.76
12	0.78641	0.3641	0.1557	5.67
13	0.68008	-0.2521	0.0775	54.98
15	1.09442	-1.0939	0.2149	3.55
16	0.93579	-1.0984	0.1545	3.60
17	0.80091	-0.9589	0.1355	1.66
18	1.25554	1.2155	0.2258	10.03
20	0.48366	-0.6763	0.0626	1.42
21	1.30769	1.2770	0.3581	10.74
24	0.68666	-1.6303	0.2000	2.55
25	0.64968	-1.0838	0.0469	2.42
26	1.18636	0.5765	0.2213	25.64
27	0.93860	-2.0900	0.1872	57.01
28	1.02098	-2.0064	0.2000	63.13
29	0.32983	0.5158	0.0906	2.69
30	0.84733	-1.2733	0.2080	6.48
31	0.60940	-0.9312	0.0477	-0.29
32	0.76252	-0.8015	0.1544	23.13
34	0.65718	-0.3948	0.0708	1.72
35	0.82102	-1.8250	0.0639	40.61
36	0.59126	-1.4912	0.2000	8.74
37	0.56152	-0.1510	0.2045	2.39
38	0.59756	-0.9414	0.0626	1.86
40	1.23170	-0.7816	0.2341	1.63
44	1.24990	0.5358	0.3762	8.03
45	1.31704	1.1840	0.2884	50.36
46	1.55800	0.8451	0.1577	38.58
47	1.23344	-0.7372	0.2121	6.47
48	1.26277	0.8262	0.2605	11.43
49	0.53233	1.0019	0.2589	3.55
95	1.10650	-0.8723	0.1292	5.22
96	0.86726	-1.4518	0.2000	9.29
97	1.25390	-0.8785	0.2241	1.14
98	0.74980	-0.0657	0.1246	5.92
99	1.58966	-1.6361	0.1725	7.14
100	0.21451	1.7539	0.2000	57.22
101	0.65782	-1.0425	0.1803	3.00
102	0.73518	-1.9160	0.1872	34.41
103	1.09141	-0.3359	0.2401	9.96
104	0.32513	0.3720	0.2000	95.95
105	0.75167	0.1378	0.2636	3.12

continued

**Table 117. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 English Reading (Concluded)**

Item	a	b	c	Fit-Z
106	0.76067	-0.4362	0.2543	1.13
107	0.66451	1.5376	0.3003	3.65
108	0.52868	-0.1868	0.2000	182.17
109	1.21049	-0.3476	0.1152	7.23
110	0.95540	-0.0686	0.3198	12.70
111	1.24195	-0.5188	0.2442	7.17
112	1.13703	0.1360	0.2874	5.29
113	0.34807	-1.3466	0.2000	57.02
114	0.61982	-0.0461	0.3126	-0.24
116	0.52114	-0.4303	0.2310	1.08

M1=58.0392, M2=642.5302, N=56070, Critical Z=149.52

**Table 118. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 English Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		0.43472	0.8417	-1.1797	-0.6513		34.60
5		0.47391	0.3264	0.5563			81.15
14		0.62553	-0.5138	0.7943	1.8490		24.12
19		0.99134	-0.1077	0.7164	2.0080		101.17
23		0.80604	-1.0801	0.1692			39.93
33		0.39706	-1.2408	3.2335	-3.0173		187.25
39		0.89894	-0.6745	-1.0341	-0.4063		17.85
41		0.80803	0.4948	0.8079			15.76
42		0.38930	0.6670	0.1613	-0.0442		153.02
43		1.05230	-0.1892	-0.9851			77.89
92		0.95518	-0.6856	-0.5136			15.19
93		1.21715	-0.5363	0.7967			39.75
94		0.74862	-0.0054	-0.2608	0.1129		113.38
115		0.60666	-0.1441	1.3380			62.32

M1=58.0392, M2=642.5302, N=56070, Critical Z=149.52

**Table 119. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 English Writing**

Item	a	b	c	Fit-Z
50	0.78111	-1.8474	0.2000	5.12
51	0.72825	-1.1448	0.1604	-0.04
52	0.94431	-1.1866	0.3429	2.03
53	0.25213	2.3622	0.2000	8.91
54	0.91656	-0.6116	0.2108	5.11
55	0.83081	-1.4563	0.2000	4.84
56	0.57453	-0.5283	0.2000	5.19
57	1.10484	-1.2371	0.2175	5.22
58	0.84511	0.5022	0.2107	10.04
60	0.34093	0.8026	0.2000	12.29
61	0.73935	1.1525	0.1904	10.41
62	1.38723	-1.2661	0.2209	47.50
63	0.80314	-1.4507	0.2000	2.37
64	1.04522	-1.4042	0.1514	7.95
65	1.12257	-0.5544	0.1958	6.63
66	0.66926	-1.0793	0.0955	16.83
67	1.15892	-1.2772	0.1569	8.12
68	0.93781	-0.7784	0.1622	9.27
69	0.41210	1.8408	0.4974	35.80
70	0.38182	-0.4497	0.1342	1.99
71	0.91945	-1.6345	0.2031	4.24
72	0.77297	0.0872	0.2327	2.37
73	0.39071	-0.9800	0.2000	10.19
74	1.07645	1.1711	0.1746	45.80
75	0.41233	1.5017	0.1865	33.21
76	1.02758	0.2798	0.2040	8.29
77	0.83318	1.3283	0.1730	73.04
78	0.58747	-0.0678	0.0904	6.14
79	1.19124	-0.9314	0.1886	10.99
80	1.04261	-0.7273	0.2439	5.08
81	1.15292	-1.1243	0.1840	23.97
82	0.86202	-0.7910	0.1233	10.43
83	1.18487	-1.8984	0.1389	10.67
84	1.08011	-1.1398	0.1366	8.77
85	1.40868	-0.9175	0.1813	7.39
86	0.92332	1.4086	0.1719	10.48
87	0.90582	-0.7959	0.2087	10.41
88	0.97761	-0.2741	0.2233	4.26
89	0.88019	-0.3650	0.1829	5.77
90	1.37402	-0.8349	0.1738	16.57

M1=64.7174, M2=558.2417, N=56322, Critical Z=150.19

**Table 120. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 7 English Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.14467	-5.2416				1.35
2	A	1.70075	-1.8693				5.00
2	B	0.79422	-1.2523				2.99
2	C	1.18393	-1.2343				16.67
2	D	1.10318	-0.3171				0.36
2	E	1.74856	-0.6366				12.63
2	F	0.80801	0.2534				4.64
3	A	1.09395	-1.7276	-3.0878	-0.4649	3.6117	244.33
3	B	1.38707	-5.5665	-3.4258	-0.4070	4.0340	38.44
3	C	1.62797	-6.3227	-2.7586			10.85
22		0.92107	-1.4543	-3.4932	-0.5612	1.8690	104.65
59		0.78819	-2.0870	-3.2871	-0.0079	1.8400	65.60
91		0.83900	-1.4824	-2.1643	0.3823	1.9377	125.86

M1=64.7174, M2=558.2417, N=56322, Critical Z=150.19

**Table 121. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 7 English Mathematics**

Item	a	b	c	Fit-Z
1	1.01883	-0.3893	0.1735	2.92
2	0.98725	0.2398	0.3953	18.89
4	0.26410	-0.6749	0.2000	30.26
5	0.50655	-0.3915	0.0639	1.26
6	1.42667	0.3248	0.3091	15.14
7	1.54321	0.5914	0.2235	50.39
9	0.55767	-1.9281	0.2053	8.95
11	1.31023	0.8981	0.2540	27.25
12	0.68614	1.0369	0.2510	6.06
13	0.38835	-3.3259	0.2000	5.37
16	0.93357	-0.5381	0.3326	3.09
17	0.69596	0.4178	0.2914	1.10
18	0.82458	0.3715	0.1464	32.13
19	0.97960	-0.7784	0.4982	3.57
21	0.81800	0.8278	0.0654	3.15
22	0.71308	-0.5628	0.2124	27.52
23	1.28480	0.1918	0.2874	10.31
24	0.69432	-1.5967	0.2322	11.45
26	1.76059	1.3748	0.2287	220.61
27	0.99518	0.8506	0.2029	11.97
28	0.83599	1.5109	0.1545	8.91
30	0.57284	-4.2392	0.2000	38.38
31	1.17075	-0.8924	0.0765	27.80
33	0.76783	0.2264	0.1572	3.32
34	0.93561	-0.8690	0.2036	0.28
36	0.93296	1.7176	0.1759	2.36
37	0.91451	-0.7547	0.2748	0.52
38	0.50069	-0.7704	0.0853	30.56
39	0.59806	0.2893	0.1554	-1.36
41	0.89813	-1.7929	0.0755	6.61
42	0.71454	-0.7918	0.0881	14.78
44	0.82832	-0.1338	0.3192	2.31
45	0.74112	-1.5522	0.2053	17.84
46	1.21556	0.2295	0.3446	32.56
47	0.99597	0.1730	0.1037	1.79
48	1.05991	0.4253	0.2043	1.69
50	1.14229	0.5052	0.2206	2.47
51	1.00028	-0.5943	0.2338	17.27
52	1.22780	-0.7484	0.2695	29.70
54	0.24907	-2.9081	0.2000	4.45
55	1.26799	0.0438	0.2074	4.47
56	1.07932	-0.1972	0.4135	1.29
58	1.51840	0.1235	0.3316	4.36
59	0.37996	-0.9796	0.1190	2.80

M1=59.6450, M2=565.9932, N=54481, Critical Z=145.28

**Table 122. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 7 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
3		0.68248	1.6052	-0.3152			105.66
8		1.27847	-0.8499	-0.3259	0.1257		98.52
10		1.01545	2.6020	0.1332			69.42
15		1.44719	0.7857	2.2690	0.9266		59.43
20		0.94299	-2.3491	0.4032	2.3623	0.4136	39.80
25		1.32626	0.6670	1.3845	1.9104		47.68
29		0.77062	0.2766	1.6018			604.30
32		0.87735	1.9392	-0.7962			12.22
35		0.84640	-1.2696	-0.7235	1.6864		178.20
40		0.86527	0.5793	-1.1404	0.5214	0.7847	38.06
43		0.90103	-0.3960	-0.2086			18.38
49		0.89841	0.4994	-1.0909	-0.0556		204.42
53		0.96142	0.0933	-0.3859			807.37
57		0.59214	-1.5850	-1.5234	-0.7280		24.25
60		0.78870	-0.7889	0.2313	-0.4035	2.6109	69.63

M1=59.6450, M2=565.9932, N=54481, Critical Z=145.28

**Table 123. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 8 English Reading**

Item	a	b	c	Fit-Z
4	0.71462	-1.2727	0.0944	30.89
5	0.66226	-1.4857	0.2000	22.75
6	0.38373	0.7133	0.2000	11.72
7	1.16293	-1.7717	0.2000	13.45
8	1.41930	0.3991	0.2440	15.89
9	0.88166	-0.1086	0.1302	2.22
10	1.21436	-0.9696	0.1727	2.50
11	0.76711	-1.7069	0.2000	6.95
12	0.63889	-0.9024	0.1364	-0.04
15	0.75352	-1.3670	0.2000	0.26
16	1.12058	-1.6487	0.0682	5.34
17	1.03848	-0.5379	0.2879	2.13
18	0.56623	1.9146	0.2354	3.29
19	0.65684	-0.4998	0.2935	10.06
20	1.25727	0.9377	0.2509	55.07
22	0.44722	-1.2794	0.2000	35.97
23	0.70821	0.7059	0.2387	7.56
25	0.89807	2.0686	0.4416	7.15
26	0.60516	-1.8461	0.1960	24.44
27	0.75960	-1.1474	0.0481	13.24
31	1.25421	-1.2882	0.3196	1.20
32	1.36875	-1.2531	0.1696	2.61
33	0.47954	0.4740	0.1209	2.68
34	0.42399	0.6004	0.1088	12.32
35	1.00012	-1.0513	0.1423	8.91
36	0.39466	-0.7199	0.2000	30.18
37	0.78335	-0.3676	0.2137	1.51
40	1.19857	0.4328	0.3911	5.90
41	1.30214	1.1230	0.2563	50.92
42	1.54808	0.7789	0.1518	40.64
43	1.18352	-0.8780	0.2106	3.96
44	0.95430	0.3930	0.2306	5.04
45	0.41490	-2.1313	0.2000	8.12
46	1.06655	0.6315	0.2146	5.61
92	0.46206	-1.8613	0.2000	70.85
93	0.88307	-1.6717	0.2000	13.68
94	0.63136	-0.1675	0.0672	2.93
95	0.30007	-0.3428	0.2000	318.53
96	0.32986	1.9862	0.3779	13.50
97	0.62524	-0.1970	0.1339	13.23
98	0.82788	-1.5096	0.0779	8.82
99	0.97656	-0.4850	0.2357	5.60
100	0.33635	0.2248	0.2000	103.98
101	0.62849	1.9154	0.2459	4.26
102	0.52505	1.5284	0.1432	0.53
103	1.28000	1.1586	0.2482	22.69
104	0.87447	1.1324	0.2112	8.88
105	0.94488	1.1350	0.1891	28.51

continued

**Table 123. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 8 English Reading (Concluded)**

Item	a	b	c	Fit-Z
106	0.64949	1.2674	0.1736	63.38
107	1.22071	-0.3523	0.2649	2.95
110	0.93440	0.6813	0.2034	7.90
112	0.55468	0.4565	0.1429	0.58
113	1.08178	-0.9024	0.2696	15.41
114	1.04935	0.2246	0.1336	14.98
115	0.83149	0.0702	0.1459	2.31
116	0.98520	-0.9031	0.2075	2.67

M1=54.7895, M2=649.8276, N=55545, Critical Z=148.12

**Table 124. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 8 English Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
13		0.53649	-1.2913	-1.1356	-0.8032		31.24
14		0.58987	-1.0955	1.1048	-1.5300		25.83
24		1.11364	-1.7781	2.8792			8.78
28		1.07088	-1.8217	-0.4342	2.1549		17.85
29		0.77162	0.2997	0.4273			59.36
30		0.64193	0.4487	-0.1658	-0.3345		126.40
38		0.84490	-0.3039	-0.2719			76.66
39		0.99897	-0.1956	-1.1788			79.37
89		0.97456	-0.8698	-0.7744			28.44
90		1.18856	-0.7208	0.3432			59.99
91		0.74734	-0.8810	-0.1953			98.25
108		1.06332	-1.4432	-0.3862	2.2146		32.42
109		1.17735	1.1119	1.8090			40.22
111		0.59307	-0.0832	-1.2027	-0.5510	0.8449	181.79

M1=54.7895, M2=649.8276, N=55545, Critical Z=148.12



**Table 125. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 English Writing**

Item	a	b	c	Fit-Z
47	0.95526	-1.0951	0.1708	4.99
48	0.81844	-1.3761	0.0842	14.85
49	1.06560	-0.1427	0.3547	14.39
50	0.82913	-0.1952	0.2183	7.72
51	1.06119	-0.3004	0.2350	7.52
52	1.00639	-1.5587	0.1811	4.36
53	0.67823	1.1225	0.1166	36.06
54	0.54594	-0.2310	0.1078	0.79
55	1.01815	-0.9905	0.2641	3.98
56	1.30067	-1.6499	0.2161	7.16
57	0.57370	-0.7694	0.2000	12.74
58	0.44412	1.2352	0.4961	17.85
59	0.45092	-0.0671	0.2084	1.74
60	0.17186	-3.7980	0.2000	97.40
61	0.42799	-1.4647	0.2000	22.75
62	0.27251	2.4565	0.2000	56.27
64	0.93200	-1.1861	0.1679	5.53
65	0.80607	-1.8746	0.2000	21.56
66	1.36672	-0.8562	0.4087	6.02
67	1.18905	-0.5283	0.3005	7.18
68	1.49010	-1.2977	0.1705	23.87
69	0.68150	-0.1788	0.0657	94.36
70	0.20908	1.2888	0.0816	5.45
71	0.65485	-0.1247	0.2066	7.57
72	1.14330	0.4591	0.0962	48.95
73	0.76294	-0.3749	0.1000	8.57
74	0.83184	-0.9754	0.1183	16.04
75	0.75681	0.0342	0.1539	1.67
76	0.92143	1.0745	0.1728	55.43
77	0.99619	-0.3541	0.1604	21.34
78	0.82941	-0.8644	0.1797	4.68
79	0.67830	0.0541	0.1266	1.70
80	1.14480	-0.9620	0.1437	23.82
81	0.89464	0.3935	0.2899	8.83
82	1.04767	-0.5623	0.1710	6.73
83	0.61191	-0.7976	0.2000	29.51
84	0.76544	-0.1842	0.2590	7.15
85	1.38865	-0.9445	0.1744	20.24
86	1.21889	-0.6881	0.1237	9.07
87	1.08066	-0.6001	0.1977	23.59

M1=67.0177, M2=557.2896, N=57260, Critical Z=152.68

**Table 126. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 8 English Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.13202	-5.1129				4.62
2	A	1.02871	-1.4335				0.75
2	B	0.54888	-0.2364				45.84
2	C	1.16735	-0.2994				2.05
2	D	0.72011	-0.5306				40.61
2	E	0.97436	0.3456				20.57
2	F	0.82281	-0.9456				141.25
3	A	1.14274	-1.8844	-3.3945	-1.4996	2.7240	809.54
3	B	1.45308	-5.5436	-3.7836	-1.3026	3.0582	44.48
3	C	1.53153	-6.3022	-2.5416			18.27
21		0.95566	-2.4297	-2.5470	-0.9141	2.0893	97.51
63		0.91139	-2.5311	-2.5445	-0.3986	1.7708	96.39
88		0.85291	-1.2657	-2.3883	0.0272	1.9804	118.27

M1=67.0177, M2=557.2896, N=57260, Critical Z=152.68

**Table 127. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 8 English Mathematics**

Item	a	b	c	Fit-Z
1	0.61420	0.2766	0.2820	29.71
3	0.63272	0.6723	0.0271	5.45
4	0.42345	-1.2214	0.2000	21.84
5	0.80155	0.2071	0.1963	112.38
6	0.64360	-0.3068	0.0724	0.22
8	1.47246	2.0210	0.0547	58.08
9	0.70234	0.5139	0.2577	29.25
11	1.19301	0.6853	0.2471	22.69
12	1.76471	1.0767	0.2654	52.96
13	0.58124	-0.3668	0.2392	1.88
14	1.03627	0.3831	0.0503	24.07
16	0.52627	-1.0456	0.2000	13.73
17	0.22823	-0.0499	0.2000	16.35
18	1.38397	0.3213	0.4369	11.73
19	0.35745	-2.5246	0.2000	12.20
21	0.48904	1.4406	0.0390	1.20
22	0.88160	0.2440	0.4766	15.84
23	0.84092	-2.3275	0.2000	35.56
24	1.01598	0.1129	0.1042	12.95
26	0.64945	-0.6558	0.2000	13.24
27	1.69182	2.0791	0.2000	571.59
29	1.68602	2.3761	0.2000	695.77
31	0.90337	1.5681	0.1649	2.75
32	1.76471	1.1965	0.2562	156.62
34	1.21428	1.1783	0.3172	1.49
35	1.56820	1.9167	0.1215	155.02
36	1.63828	1.8039	0.2140	12.09
37	0.87782	1.2136	0.3327	3.45
38	1.27520	0.1063	0.1435	1.37
39	1.30107	1.0530	0.1077	9.41
41	0.60864	-1.4791	0.2000	5.47
42	0.93189	-0.6439	0.1064	15.30
43	0.74166	-0.6733	0.2421	1.52
45	0.68782	0.5566	0.1548	4.77
46	1.75185	1.7038	0.1419	87.49
47	0.77616	2.5997	0.2141	4.78
49	1.02298	-0.1839	0.4499	0.45
51	1.76471	1.7800	0.1460	300.86
52	1.10757	-0.3855	0.2484	8.39
54	0.80096	-0.5732	0.2312	10.14
55	0.69113	0.2470	0.1263	-0.35
56	1.11630	0.7033	0.0572	10.99
57	1.76471	0.9145	0.2184	14.42
58	0.27012	-2.8951	0.2000	11.52
59	1.19491	1.4486	0.2965	15.70

M1=54.5467, M2=569.5193, N=50558, Critical Z=134.82

**Table 128. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 8 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
2		0.65724	0.0769	-0.4243			3.73
7		1.24100	-1.5851	0.5554	0.0468		84.60
10		1.14745	1.1005	-0.6776			31.21
15		0.82446	0.8577	1.2806	1.7533		47.85
20		1.23132	-0.3199	0.3802	2.1369	2.4034	28.48
25		1.45185	2.0924	1.8998			36.08
28		1.25940	-2.0508	-0.4061	1.2077		163.44
30		0.87352	1.8077	-0.7796			15.95
33		1.22532	-0.1242	1.7857	1.9935		24.39
40		0.83410	0.3109	-1.2368	0.2757	0.5455	55.21
44		1.37694	-0.2834	-0.2484			67.50
48		0.99264	-0.2727	-1.5745	-0.2250		230.92
50		0.72906	1.8562	-1.2463			77.27
53		1.27357	0.1359	0.3097	1.0817		89.62
60		0.67348	-1.5554	-1.1338	-0.6054	1.1110	658.56

M1=54.5467, M2=569.5193, N=50558, Critical Z=134.82

**Table 129. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 English Science**

Item	a	b	c	Fit-Z
1	0.27884	-3.2843	0.2000	1.83
3	1.21983	0.9217	0.3967	4.78
4	0.52199	3.7338	0.1120	1.16
5	0.89702	0.4913	0.3023	2.96
6	0.79537	-0.1513	0.1178	31.25
8	0.84961	1.1774	0.1977	3.13
9	0.87093	1.8807	0.2747	1.88
10	0.63336	1.2548	0.3688	5.57
11	1.27578	-0.4196	0.2191	12.51
12	0.60085	-0.1674	0.3252	40.40
13	0.79629	-2.1470	0.2000	6.06
14	0.70989	-1.9412	0.2000	4.40
15	0.47878	-0.7978	0.1843	22.19
16	0.82458	0.8980	0.1547	32.12
17	0.43668	-0.9211	0.2000	17.43
18	0.65990	0.5027	0.2718	4.83
27	0.86837	-1.9844	0.2000	13.89
28	1.25465	1.7794	0.3247	11.69
29	0.56933	0.4402	0.4626	1.19
30	0.95530	0.8409	0.2851	6.44
34	0.55592	0.7411	0.0504	1.03
35	0.90490	0.7591	0.3073	2.38
36	0.54234	-0.9541	0.0557	21.82
37	0.73646	0.9620	0.2662	6.55
38	0.49569	0.0951	0.0997	4.28
40	1.00766	0.9659	0.2635	2.89
42	0.49640	-0.0726	0.1079	7.64
43	1.06341	-1.0424	0.0682	5.73
44	0.44217	-0.3576	0.2000	32.86
45	0.77190	-1.6557	0.1843	63.58
46	0.69669	-0.0998	0.2258	5.36
47	1.32460	0.6843	0.2166	47.93
48	0.82989	-0.1608	0.1875	16.01
51	1.03536	1.9813	0.2214	74.71
52	1.30558	0.4159	0.2543	36.94
54	0.68571	0.4803	0.2230	32.48
55	1.36926	-1.1482	0.1672	6.80
56	1.07616	1.5171	0.1478	4.05
58	0.63240	1.5165	0.2097	0.03
59	0.88754	1.0787	0.1092	3.74
60	0.52338	-1.6535	0.1843	24.81
61	0.58540	-1.9355	0.1843	41.39
62	0.42858	0.2553	0.1056	1.03
64	0.82345	-2.8966	0.2000	24.11
65	0.70250	-2.3307	0.2000	11.94
67	0.66831	-1.3000	0.1843	257.47
68	0.83598	0.2535	0.1795	3.03
69	0.63526	0.3337	0.1131	1.78
70	1.51888	0.8043	0.1937	156.64

continued

**Table 129. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 English Science (Concluded)**

Item	a	b	c	Fit-Z
71	1.38023	1.1237	0.0712	20.67
72	0.65896	1.3168	0.3280	7.11
73	1.06433	-1.3815	0.1670	7.62
74	0.59388	-1.5618	0.1843	25.63
76	0.96469	1.2423	0.2707	23.76
79	0.34543	-1.5343	0.2000	7.39
81	0.92022	-0.6611	0.0782	12.37
82	0.27743	1.0492	0.2000	42.46
83	1.15752	2.2016	0.2095	31.78

M1=51.8321, M2=516.1436, N=55342, Critical Z=147.58

**Table 130. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 English Science**

Item	Part	f	g1	g2	g3	g4	Fit-Z
2		1.51414	-0.3256	2.2811			57.35
7		0.99099	-1.3525	2.2632			30.04
19		0.88409	-0.4539	-0.0249			73.24
20		1.12647	-0.4154				51.94
21		1.07565	-2.2754				3.30
22		0.51841	-0.9939	-0.6381	-0.3959	-0.3124	26.63
23		1.46557	-1.9747				24.92
24		0.90228	2.3191				-0.67
25		0.73777	1.5175				40.07
26		0.59756	2.5855	-1.4872			13.37
31		1.12860	0.1183	0.8536			15.32
33		0.94663	1.1053				0.51
39		0.76292	-0.4851	-0.2552			72.85
41		0.39850	0.7221	0.7134			1437.31
49		0.89478	-0.6514				20.64
53		0.51832	-0.1959	-0.7422			81.43
57		0.54382	1.2659	-1.3079			36.26
63		1.10258	0.5181	1.7125			4.72
66		0.61595	-1.4542	-1.5779			28.34
75		0.68112	-0.9802				2.97
77		1.25274	1.7792	3.6987			8.03
78		1.26631	-0.8472	1.4070			17.33
80		1.45802	-2.7941	-0.3912			79.64

M1=51.8321, M2=516.1436, N=55342, Critical Z=147.58

**Table 131. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 9 English Reading**

Item	a	b	c	Fit-Z
4	1.21471	-1.0152	0.1477	3.62
6	1.28280	-1.6229	0.3683	7.16
7	1.31838	-1.6701	0.1564	4.11
8	0.57631	0.5995	0.1541	4.83
9	0.39846	-0.1316	0.0748	3.20
10	0.88824	-1.5710	0.0982	6.06
11	0.42284	-0.2823	0.3567	36.39
12	0.89154	-0.5698	0.2102	3.71
15	0.70526	-1.4465	0.2306	4.17
16	1.28911	-1.7165	0.0713	7.37
17	0.90886	-0.8689	0.2232	2.79
18	0.52333	-1.3677	0.1850	12.30
19	0.78525	-1.7258	0.0724	13.26
20	0.43919	1.6713	0.1944	10.83
21	0.60143	-1.0707	0.1252	10.74
23	0.58702	-1.4644	0.2000	150.00
24	0.67681	-0.0726	0.3329	19.25
26	0.87433	2.0013	0.2322	4.19
27	0.62949	-0.9859	0.2000	15.91
28	0.95353	-0.0157	0.2131	2.83
29	0.57253	-0.9099	0.1850	46.40
30	0.85906	-0.4045	0.1044	6.86
31	0.54599	0.5403	0.2864	11.02
32	1.28360	1.1043	0.1395	24.68
34	0.41511	0.8951	0.2000	3.43
35	0.36219	-0.3466	0.2000	4.67
36	1.11061	-1.2403	0.2456	4.76
37	0.98463	-0.3178	0.2391	8.53
38	0.68983	-1.0745	0.0950	3.41
39	0.34265	-1.2514	0.2000	38.96
40	0.92442	-0.5603	0.1947	2.41
41	0.37514	-1.7423	0.2000	161.23
43	0.66483	-0.8661	0.1399	18.11
45	1.08642	-1.2232	0.0612	7.99
46	0.61344	-0.2068	0.2998	7.30
48	0.44781	-0.7165	0.0822	13.44
49	0.71512	0.9344	0.1809	2.94
50	0.45630	-0.5446	0.2000	104.84
51	0.72373	-1.1223	0.2015	8.73
52	0.90115	-0.2119	0.2479	10.75
54	0.53727	0.0555	0.1118	12.26
55	1.14101	1.5530	0.1574	7.16
98	1.33186	-0.6334	0.3287	3.51
99	1.16367	-1.1229	0.2457	1.58
101	0.16946	1.5491	0.2000	184.16
102	1.21007	-0.6568	0.2029	6.98
103	0.80709	-1.7324	0.2000	15.20

continued

**Table 131. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 English Reading (Concluded)**

Item	a	b	c	Fit-Z
107	1.06886	0.8977	0.1991	40.88
108	1.08461	0.2604	0.2813	5.42
109	0.82851	0.1870	0.1693	86.94
110	0.78657	-1.3087	0.0798	84.90
111	1.76471	1.0537	0.2182	105.75
112	1.59543	1.7811	0.2000	197.13
113	1.26666	0.4314	0.2218	17.41
114	0.81969	-0.4486	0.2287	35.03
115	1.40416	1.3175	0.2273	19.16

M1=46.5468, M2=665.2595, N=59368, Critical Z=158.31

**Table 132. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 English Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.57465	0.1387	-0.4408	-0.7050		95.49
13		0.56299	-1.3906	-1.3186	-1.0007		53.57
14		0.62464	-1.2395	0.4536	-1.3215		49.54
22		0.55223	1.2326	-0.0300	-0.0546		44.99
25		0.82335	-0.9210	-1.1661	-0.8465		32.83
33		0.72731	-1.0319	0.4849			30.36
42		0.77726	-0.4574	0.8224			53.04
44		0.71720	-0.9267	1.3538	0.8342		92.40
47		0.95999	0.3124	-1.5733	1.2824		55.17
53		1.16733	-0.3490	-0.1904	0.9374		20.58
100		1.17699	0.1282	-0.4309			63.52
104		0.83184	-0.8026	1.0076	2.5316		45.01
105		0.58429	0.2907	-0.8923	0.4305		159.60
106		0.97319	0.2601	1.4771	0.7298		144.65

M1=46.5468, M2=665.2595, N=59368, Critical Z=158.31



**Table 133. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 English Writing**

Item	a	b	c	Fit-Z
56	0.42652	0.1387	0.1784	-0.16
57	1.28836	-1.6416	0.3691	5.17
58	0.75426	-1.3396	0.1434	5.34
59	0.16106	1.9483	0.2000	17.29
61	0.75012	-1.8475	0.1519	9.47
62	0.70695	1.3736	0.1602	5.02
63	0.97534	-0.6199	0.2181	2.04
64	0.95629	-0.2763	0.1810	1.93
65	0.89995	-1.4572	0.2000	0.64
66	0.40257	1.5267	0.4148	6.62
67	0.82048	0.4638	0.3026	4.62
68	0.55752	-0.7148	0.2000	24.59
70	1.76471	-0.8353	0.1427	14.44
71	0.35840	1.1842	0.2000	73.32
72	1.31171	-0.8902	0.2155	6.38
73	0.76035	-0.9335	0.1339	4.05
74	1.34807	0.4682	0.2781	34.54
75	1.44022	-0.1463	0.2115	13.79
76	0.62115	-0.3603	0.1083	7.12
77	1.01239	-0.3887	0.1806	2.72
78	0.62208	1.3294	0.1288	2.87
79	0.89452	0.8051	0.1655	43.83
80	0.72577	-0.2200	0.1237	4.94
81	1.25065	-0.9399	0.1626	27.26
82	0.95722	-1.0041	0.1411	3.96
83	0.62318	-0.4156	0.2348	5.86
84	0.60935	0.7123	0.3073	3.32
85	0.83784	-0.6743	0.1115	2.33
86	0.48653	-0.5176	0.0895	7.78
87	0.87846	-0.9913	0.1160	42.59
88	0.54808	1.0749	0.2140	11.83
89	1.35612	-1.2671	0.2307	43.62
90	1.76471	-1.1844	0.1673	23.12
91	1.22319	-0.3821	0.2423	6.02
92	1.66176	-1.2816	0.2284	26.43
93	1.15241	-0.7081	0.1981	10.25
94	1.12477	-0.3437	0.2167	3.39
95	1.03368	-0.5711	0.2530	4.51
96	0.79887	0.5306	0.2596	4.23

M1=70.8745, M2=564.3486, N=59215, Critical Z=157.91

**Table 134. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 9 English Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.44995	-4.9247				4.46
2	A	1.12129	1.6356				115.64
2	B	0.90108	-0.6134				6.64
2	C	1.48319	-1.7203				-0.19
2	D	1.24847	0.5468				2.93
2	E	1.26065	-0.5559				16.24
2	F	0.99840	1.4243				16.81
3	A	1.44806	-3.1886	-2.7205	-0.3210	3.0835	1878.02
3	B	1.76311	-6.3173	-3.3664	-0.3133	3.5555	46.13
3	C	1.97394	-7.2561	-1.3092			29.89
69		0.99169	-2.0089	-2.8851	-0.5522	1.8692	147.71
97		0.92314	-1.3910	-2.8519	-0.6543	2.0352	158.94
116		0.91325	-2.4825	-1.9338	0.5514	1.9857	61.00

M1=70.8745, M2=564.3486, N=59215, Critical Z=157.91

**Table 135. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 9 English Mathematics**

Item	a	b	c	Fit-Z
1	0.64729	-0.3685	0.1247	6.02
2	1.52378	1.7693	0.2385	237.76
4	1.15359	2.0134	0.0465	89.52
5	0.54236	-1.7283	0.1924	21.34
7	1.24518	0.2619	0.1995	34.69
8	1.54975	0.7512	0.1961	11.59
9	1.27486	0.6818	0.0947	18.52
10	0.83051	0.6314	0.1877	8.63
12	0.54941	1.7834	0.1830	2.94
13	1.70185	1.4458	0.2023	26.71
14	0.75199	-0.2043	0.2881	2.16
16	1.57887	2.2388	0.1472	6.23
17	0.93103	1.9787	0.1712	1.45
18	1.30534	1.4888	0.3524	5.50
19	0.43984	-0.7613	0.2000	19.75
21	0.96349	1.5107	0.2605	4.01
22	0.87709	1.0381	0.1853	10.89
24	1.06768	0.7210	0.0617	28.32
25	0.46737	-2.4157	0.2000	44.34
26	0.86915	1.3363	0.1584	3.84
28	0.91006	0.8542	0.2495	7.37
29	0.28216	-0.3441	0.2000	74.78
31	0.89296	0.8376	0.0869	52.55
32	0.52080	-0.6717	0.0700	5.49
33	1.05436	0.1653	0.1121	41.07
34	1.36059	1.7128	0.2658	1.45
36	1.11343	1.2881	0.1031	12.01
37	0.99894	-0.7535	0.2533	2.60
38	0.63403	-0.6771	0.1787	14.40
39	0.52926	1.4899	0.2946	2.93
41	1.03747	0.5015	0.3164	2.78
42	0.51223	-0.4444	0.3009	4.42
43	1.00136	0.2476	0.3700	2.72
45	0.40784	-2.7652	0.2000	21.59
46	1.31398	0.2898	0.3898	12.78
47	0.13972	0.7638	0.2000	57.53
49	1.18099	0.6646	0.1103	27.48
50	0.94592	2.0834	0.1910	12.48
51	1.07767	1.6878	0.1783	13.01
53	1.62497	1.2007	0.1552	10.21
55	0.67962	-0.0857	0.1786	8.21
56	1.76471	1.8258	0.0979	108.24
57	0.97907	0.5674	0.2569	11.96
58	1.14659	0.9500	0.1383	16.25
59	1.42023	0.7982	0.1536	26.88

M1=61.7943, M2=577.3052, N=56801, Critical Z=151.47

**Table 136. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 9 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
3		1.20083	0.4093	2.3802			7.05
6		1.45618	-1.9980	1.3099	1.2253		114.20
11		0.99200	3.1919	-1.2682			80.21
15		0.92532	0.7997	1.0562	1.7143		109.20
20		1.37369	-0.7772	0.6722	1.1020	3.1632	61.54
23		1.00754	2.6479	-0.0665			33.95
27		1.25670	-0.2841	1.3675	1.6306		28.87
30		0.64127	0.9607	0.7606			351.78
35		0.83102	-1.0973	-0.8339	3.0985		300.16
40		0.91975	-1.1258	-0.3448	0.1205	1.1204	79.85
44		1.12409	3.1118	-0.8513			43.82
48		1.82497	0.3283	1.3446	2.8173		67.27
52		1.53084	1.7171	1.6529			58.24
54		1.14673	0.0722	-0.0396	0.5613		133.91
60		1.04181	-1.8343	0.3496	2.6408	2.2397	108.57

M1=61.7943, M2=577.3052, N=56801, Critical Z=151.47

**Table 137. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 10 English Reading**

Item	a	b	c	Fit-Z
4	0.67411	-1.1785	0.1897	21.11
5	0.56823	-2.0262	0.0909	11.19
6	0.73478	-1.2725	0.2000	0.61
8	0.87988	-1.8942	0.0444	18.06
9	0.85647	-1.2568	0.3025	8.04
11	0.45927	-0.1729	0.4072	4.64
12	0.66856	-1.0483	0.1291	14.83
13	0.58017	-1.2905	0.0552	4.94
16	0.32572	-1.3221	0.2000	22.57
17	0.48160	-1.6290	0.1017	2.31
18	0.60989	-0.3227	0.3699	5.92
19	0.69009	-0.6541	0.2296	7.23
20	1.45889	0.2840	0.3796	37.59
21	0.66908	-0.6577	0.2409	10.69
22	0.98122	-0.4558	0.2229	9.27
23	0.24031	-2.5919	0.2000	18.33
24	1.16649	-2.0961	0.0942	17.88
25	0.53281	-2.0771	0.1897	16.14
27	0.80838	-1.6381	0.2065	12.63
28	0.96423	-1.0986	0.0841	10.51
29	0.42658	0.3918	0.1313	22.10
30	1.21303	-0.5351	0.3360	4.73
32	0.83002	-1.8450	0.2000	8.95
34	0.67952	1.9495	0.2509	4.23
35	0.80143	1.9373	0.2926	7.05
36	0.39826	0.1413	0.2000	37.98
37	0.79998	-0.0457	0.2141	8.27
38	1.22320	0.2466	0.2401	13.69
40	1.37328	-0.3840	0.1140	12.48
41	1.37633	-1.6182	0.2498	3.21
42	0.58642	1.1832	0.3705	42.11
43	0.79153	0.3803	0.1855	25.10
44	0.52025	-0.3259	0.1897	53.30
45	1.46446	-0.4771	0.2692	7.82
46	1.25218	-1.1726	0.2691	1.90
48	1.28127	-0.6978	0.1664	15.61
49	0.86247	-1.7810	0.2000	23.06
95	1.01808	0.4347	0.2338	13.42
96	1.02529	0.0600	0.2856	11.06
97	0.70350	-0.2048	0.1749	59.57
98	0.74984	-1.6765	0.0667	34.31
99	1.56215	0.6034	0.2217	56.16
101	1.75297	1.3284	0.2957	61.03
102	1.24859	0.1456	0.2251	17.87
103	0.75362	-1.0490	0.2000	30.44
104	1.29935	1.0027	0.2000	34.58

continued

**Table 137. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 10 English Reading (Concluded)**

Item	a	b	c	Fit-Z
107	0.88886	-1.3106	0.1897	159.75
108	0.37429	-1.2887	0.2000	48.77
109	1.06330	-0.9521	0.1340	30.83
110	0.59270	-1.4805	0.0621	26.48
111	0.44203	0.6710	0.1466	6.29
112	1.36292	-0.5489	0.1904	14.18
113	1.25029	-1.2875	0.2844	0.95
114	0.36077	0.2310	0.1713	-0.65
115	0.99793	-0.9958	0.2931	28.11

M1=45.6690, M2=695.0198, N=54403, Critical Z=145.07

**Table 138. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 10 English Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
7		0.54461	0.7888	0.9357			114.16
10		0.53838	-0.7584	-0.1167	0.9285		11.51
14		0.55993	-1.0370	0.5012	-0.5433	0.4754	109.18
15		1.11660	-0.9349	0.8041			37.31
31		0.64869	0.2856	-0.7865	0.4391		41.72
33		0.78262	-0.5867	-0.4754	1.3060		75.51
39		0.47034	0.7731	0.4583	2.7534		27.55
47		1.31081	0.0875	-0.6298			61.89
50		0.95012	-1.0695	0.9951	2.5018		19.64
51		0.66540	0.0236	-0.8558	0.1103		120.57
94		0.94213	0.1840	0.9004	0.6754		50.00
100		1.16065	-1.3349	0.6724			231.48
105		0.86434	1.5022	1.0668	2.8130		51.64
116		0.84278	-0.7548	-1.7366	-1.0413		63.20

M1=45.6690, M2=695.0198, N=54403, Critical Z=145.07

**Table 139. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 10 English Writing**

Item	a	b	c	Fit-Z
52	1.06365	-0.3479	0.1877	8.69
53	0.30386	-1.1818	0.2000	57.73
54	0.38466	0.5018	0.1275	7.81
55	0.54960	0.5500	0.2012	22.31
56	0.88651	0.8102	0.1384	10.04
57	1.63932	-1.1610	0.1811	7.88
58	0.50422	-0.4329	0.0669	18.05
59	1.05703	-0.7495	0.1854	3.05
60	0.83989	0.3505	0.2097	5.79
61	1.62535	-0.8863	0.2417	11.30
62	0.58281	-1.2361	0.1559	49.78
63	0.89626	-0.6974	0.1380	22.03
64	0.52163	-0.3177	0.0531	17.57
65	0.86996	-0.7660	0.1148	1.33
66	0.78649	-1.0691	0.2000	312.01
67	0.61741	0.5522	0.1848	4.95
68	0.52147	0.9263	0.2041	10.76
69	0.83667	0.4069	0.1638	10.02
70	0.76115	-0.2073	0.1841	2.46
71	0.25756	0.3159	0.2000	13.76
72	1.21734	-1.0936	0.2006	8.18
74	1.06371	-1.1821	0.1175	15.06
75	0.69502	-0.8845	0.2000	10.74
76	0.59179	0.2389	0.2938	6.77
77	0.91519	-0.7928	0.1004	2.15
78	0.46183	-0.5244	0.1559	32.73
79	0.87834	-1.2106	0.0815	55.77
80	1.46541	-1.3007	0.1787	41.34
81	0.82784	-1.7709	0.0745	17.64
82	0.77847	0.0824	0.1994	4.77
83	0.88141	0.3438	0.1390	15.88
84	0.81748	-0.4436	0.1371	12.31
85	0.78508	-0.6612	0.2007	8.02
86	1.57887	-1.7140	0.2994	47.59
87	1.79691	-1.6588	0.3480	18.15
88	1.53558	-1.6405	0.2757	21.90
89	0.91865	-1.1960	0.0686	11.83
90	1.20266	-0.8081	0.1248	42.81
91	0.49028	-0.2866	0.1413	2.94
92	1.24327	0.9801	0.1608	41.11

M1=75.8267, M2=581.4861, N=54397, Critical Z=145.06

**Table 140. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 10 English Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.17509	-4.1521				6.16
2	A	0.93764	2.5882				32.28
2	B	0.72666	-0.8821				25.75
2	C	1.11113	-0.4226				36.37
2	D	1.17710	-0.9769				-0.40
2	E	0.63392	-0.3139				126.11
2	F	1.08094	-0.5831				8.13
3	A	1.91307	-5.6218	-3.6927	-0.5263	3.6512	302.19
3	B	2.13640	-7.8040	-4.0045	-0.4992	4.1480	69.59
3	C	2.18813	-7.8715	-1.5085			58.89
26		1.03739	-1.3052	-2.8929	0.6517	2.2245	136.90
73		0.70898	-1.4251	-2.6160	0.0682	0.9805	77.18
93		1.03519	-2.5485	-2.0207	1.0582	2.1281	66.10

M1=75.8267, M2=581.4861, N=54397, Critical Z=145.06



**Table 141. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 10 English Mathematics**

Item	a	b	c	Fit-Z
1	0.74950	0.0179	0.2409	0.80
2	1.24504	0.8693	0.1165	9.64
3	0.96770	1.5460	0.1591	2.45
5	1.01158	-0.3973	0.3075	6.85
6	1.01643	1.3120	0.3736	-0.24
7	0.44412	-1.1901	0.2000	19.93
9	0.65543	2.1381	0.2757	18.07
10	1.27313	1.8070	0.0368	27.08
11	1.20870	0.0215	0.2659	2.47
13	1.09069	1.5448	0.2030	9.13
14	1.64886	1.8095	0.1976	265.90
16	0.69491	-0.1587	0.1494	2.97
17	0.64866	-1.7021	0.2000	11.24
18	0.77399	1.1091	0.2855	5.90
19	1.23067	0.8720	0.0689	18.79
21	1.21545	1.2288	0.1139	4.45
22	1.76471	2.2527	0.3309	24.06
23	0.82330	1.5765	0.3349	12.73
24	1.40120	0.6310	0.1908	37.66
26	1.72736	1.4835	0.0887	173.59
28	1.15992	0.9797	0.1004	10.16
29	0.84286	-0.2474	0.2354	2.10
31	0.53294	1.5303	0.3494	5.31
32	1.23208	1.6403	0.1791	12.78
33	0.94798	0.5293	0.3117	0.52
34	0.40222	0.3411	0.2002	16.60
36	1.31355	-0.0498	0.1128	5.72
37	0.50662	-0.7784	0.1605	17.54
38	0.81924	-0.2052	0.1942	15.90
39	1.34401	0.1328	0.1531	79.43
41	0.89974	0.7402	0.2130	5.68
42	1.10409	0.7338	0.1141	2.29
43	0.37288	-0.1525	0.1765	28.97
45	1.00641	1.1033	0.2760	4.01
46	0.74987	-0.9180	0.2000	8.41
47	1.43127	1.4401	0.3577	6.08
49	1.49291	1.5022	0.0861	10.50
50	0.62927	1.1044	0.2173	29.18
51	1.34144	0.3683	0.1465	9.05
53	0.92637	0.2456	0.1616	6.83
55	0.60288	0.1434	0.1422	94.89
56	0.97689	1.4395	0.1576	3.17
58	0.88502	0.4915	0.2856	8.18
59	1.05767	0.6361	0.0707	21.55

M1=63.2788, M2=592.7915, N=53945, Critical Z=143.85

**Table 142. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 10 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		1.21194	0.2591	2.3637			4.50
8		1.23712	1.0777	1.6705	2.2505		42.75
12		1.30469	-1.6576	1.0023			137.79
15		0.93871	-2.1420	-0.4465	0.0109		64.28
20		1.62809	-0.1402	1.9236	1.0380	2.6949	72.17
25		1.11063	2.3715	-0.3183			54.48
27		1.03128	0.8799	2.3382	-0.4021		81.22
30		0.74298	-0.5209	1.0427			144.60
35		0.91016	-1.5036	-0.9466	2.8589		344.67
40		1.10499	-3.0377	-0.4454	1.4836	1.3252	134.72
44		1.69520	1.2461	2.0569			43.62
48		1.06610	0.1048	1.8101	-0.3395		127.80
52		1.24467	-0.3156	1.7295			418.66
54		1.07492	-0.0916	4.2466	1.2035		70.16
60		1.58526	0.2325	2.6751	3.8155	3.4132	30.36

M1=63.2788, M2=592.7915, N=53945, Critical Z=143.85

**Table 143. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 10 English Science**

Item	a	b	c	Fit-Z
1	1.32220	0.2747	0.1175	23.73
2	0.95103	-1.4404	0.2051	2.87
3	0.53798	0.9790	0.2397	7.08
4	0.86411	0.5307	0.0962	8.00
5	0.78406	-0.2939	0.1813	8.19
6	0.95368	1.6466	0.2957	0.83
7	1.68580	1.1988	0.4621	10.33
8	1.32781	1.1794	0.1823	75.30
9	0.99876	-0.6848	0.3082	2.76
10	1.01755	-0.7918	0.2870	8.81
11	0.97871	0.8591	0.1998	5.57
12	1.09300	-1.5699	0.1214	12.31
13	0.92459	-0.2416	0.1842	2.56
15	0.70111	1.7507	0.2908	7.78
16	0.86760	0.8374	0.1899	5.36
17	1.07869	-0.5052	0.2973	8.29
18	0.98362	-0.0155	0.2755	1.99
19	1.10318	0.2327	0.2362	4.75
20	0.77284	-1.2665	0.1987	15.69
28	0.98456	-2.6674	0.2000	35.49
30	1.24021	-1.1596	0.2164	4.69
31	0.66933	-1.0980	0.1987	72.71
32	1.16190	-0.0801	0.2567	15.58
33	0.67415	-0.6495	0.1589	5.03
34	0.69754	1.3585	0.1491	1.27
36	1.64548	0.8635	0.2706	29.05
37	0.62962	-0.9993	0.0509	15.18
38	0.74697	-1.4486	0.2000	28.34
39	0.57957	-1.4212	0.2000	21.12
41	1.18323	-0.0444	0.1140	22.78
43	0.47080	-1.2419	0.2000	33.09
44	1.03014	0.2015	0.1457	5.91
45	0.75043	0.7911	0.1482	10.83
47	0.67830	1.4092	0.1189	5.82
48	0.92169	0.8379	0.1249	4.86
49	0.92847	-1.9090	0.2000	19.22
51	0.50050	0.7040	0.0850	2.37
52	0.33520	3.5949	0.1314	0.15
54	0.91248	1.0682	0.3160	6.27
55	1.09609	2.2139	0.1536	24.06
56	0.97432	0.0862	0.2523	7.09
57	1.33391	0.9772	0.2330	9.83
59	0.80625	0.8882	0.3938	6.74
60	0.48633	-0.0523	0.2000	33.25
61	0.92401	-0.7525	0.3080	4.28
62	1.22318	-1.1022	0.1444	10.82
64	0.81051	-0.7590	0.1957	20.68

continued

**Table 143. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 English Science (Concluded)**

Item	a	b	c	Fit-Z
65	0.99231	-0.7081	0.1616	4.51
66	0.29253	-2.3305	0.2000	60.17
67	0.44901	-1.2525	0.2000	58.34
68	1.10263	-0.1591	0.2752	10.26
70	0.68756	0.5634	0.1552	6.14
72	1.43420	0.5427	0.2183	11.54
73	1.06040	-0.2060	0.3863	21.45
75	0.80352	-0.0014	0.1086	2.24
76	0.72018	-1.2300	0.0554	23.52
79	1.72953	2.1449	0.2277	204.91
80	1.02712	0.7878	0.1856	5.97
81	0.81465	-0.4281	0.1567	4.02
82	1.23360	-0.3567	0.3069	3.67

M1=53.5855, M2=510.0203, N=51440, Critical Z=137.13

**Table 144. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 English Science**

Item	Part	f	g1	g2	g3	g4	Fit-Z
14		1.43203	-1.4170				101.72
21		0.84925	0.8690				37.78
22		0.56157	0.2205	-1.1937	-0.9601	0.3511	76.12
23		0.90830	-0.7874	0.1029			281.71
24		0.86927	0.5554				8.18
25		0.94869	0.9551				82.89
26		0.49222	0.7634	1.3746			137.05
27		0.60290	1.0782				4.49
29		0.85413	-0.3447	0.8525			20.86
35		0.62454	-0.8177	-0.0970			139.85
40		0.63884	-1.0000	-0.6288			12.49
42		1.06188	1.0212	1.7008			104.93
46		1.09133	1.3199	2.3260			7.79
50		1.06300	-1.3301	-0.8677			62.75
53		1.11172	-0.7313				31.74
58		1.29617	1.3757	2.1723			20.55
63		1.22831	1.8896	1.3885			28.54
69		1.14490	1.3517				1.11
71		0.85237	-1.5025	-0.0906			50.97
74		1.13497	-0.1028	1.6808			36.30
77		1.07983	1.1798				0.17
78		1.66212	1.0373	0.5482			43.82
83		0.77042	-2.1536	0.8772			108.13

M1=53.5855, M2=510.0203, N=51440, Critical Z=137.13

**Table 145. Correlations Between the Reference and New Form Item Parameters for the 2007 CSAP Administration**

Content Area	Grade	Discrimination (a)	Difficulty (b)	Guessing (c)	p-Value (p)
Reading	3	0.90	0.97	0.84	0.99
Reading	4	0.95	0.99	0.89	0.99
Reading	5	0.90	0.99	0.80	1.00
Reading	6	0.99	0.99	0.91	0.99
Reading	7	0.96	0.97	0.67	0.96
Reading	8	0.97	0.98	0.91	0.98
Reading	9	0.98	0.99	0.93	0.99
Reading	10	0.97	0.98	0.77	0.99
Writing	3	0.94	0.93	0.68	0.99
Writing	4	0.94	0.94	0.82	0.97
Writing	5	0.98	0.99	0.81	1.00
Writing	6	0.98	0.96	0.71	0.99
Writing	7	0.96	0.98	0.74	0.99
Writing	8	0.92	0.90	0.60	0.99
Writing	9	0.99	0.99	0.90	1.00
Writing	10	0.97	0.96	0.67	0.97
Mathematics	3	0.86	0.98	0.75	0.97
Mathematics	4	0.92	0.99	0.91	0.99
Mathematics	5	0.98	0.99	0.77	0.99
Mathematics	6	0.95	0.98	0.89	0.99
Mathematics	7	0.98	0.99	0.98	0.99
Mathematics	8	0.98	0.99	0.96	1.00
Mathematics	9	0.99	0.99	0.99	0.99
Mathematics	10	0.98	0.99	0.92	1.00
Science	5	0.96	0.99	0.63	0.99
Science	8	0.94	0.99	0.86	0.99
Science	10	0.98	0.99	0.98	0.99
Reading Spanish	3	0.79	0.98	0.37	0.99
Writing Spanish	3	0.78	0.97	0.50	0.97

Note: Grade 4 Spanish Reading and Writing were pre-equated.

**Table 146. Scaling Constants Across Grades and Content Areas for Two Administrations**

Content Area	Grade	2006		2007	
		Multiplicative	Additive	Multiplicative	Additive
Reading	3	62.6	559.2	62.5	565.0
Reading	4	52.5	590.1	59.4	592.0
Reading	5	60.1	612.0	58.6	620.6
Reading	6	57.5	624.6	58.3	630.3
Reading	7	58.8	639.6	58.0	642.5
Reading	8	55.8	653.1	54.8	649.8
Reading	9	51.8	668.2	46.5	665.3
Reading	10	50.4	696.0	45.7	695.0
Writing	3	47.7	462.4	43.9	469.7
Writing	4	47.3	480.3	46.3	484.4
Writing	5	54.1	508.7	49.7	508.5
Writing	6	58.6	521.9	56.7	527.8
Writing	7	65.3	550.7	64.7	558.2
Writing	8	68.8	556.6	67.0	557.3
Writing	9	74.6	567.8	70.9	564.3
Writing	10	74.2	595.7	75.8	581.5
Mathematics	3	75.3	473.6	71.9	466.2
Mathematics	4	66.2	493.6	67.0	500.7
Mathematics	5	63.5	524.8	65.6	536.9
Mathematics	6	65.9	536.8	65.3	548.0
Mathematics	7	64.4	560.2	59.6	566.0
Mathematics	8	62.7	577.2	54.5	569.5
Mathematics	9	63.1	582.4	61.8	577.3
Mathematics	10	64.1	591.7	63.3	592.8
Science	5	50.2	554.7	49.7	560.5
Science	8	51.3	513.6	51.8	516.1
Science	10	53.9	506.8	53.6	510.0
Reading Spanish	3	36.0	528.0	37.2	522.2
Reading Spanish	4	_*	_*	_*	_*
Writing Spanish	3	55.3	502.9	59.1	507.8
Writing Spanish	4	_*	_*	_*	_*

\*Grade 4 Spanish Reading and Writing have been equated each year except 2006 and 2007, when they were pre-equated using items from 2002, 2004, and 2005.

**Table 147. CSAP Item and Anchor Count by Content Standard for  
Final Calibration Sample: Reading**

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Reading	3	CS 1	Total Test	40	100.0
			Anchor Set	19	100.0
		Total	Total Test	40	100.0
			Anchor Set	19	100.0
Reading	4	CS 1	Total Test	29	41.4
			Anchor Set	8	38.1
		CS 4	Total Test	12	17.1
			Anchor Set	5	23.8
		CS 5	Total Test	17	24.3
			Anchor Set	4	19.0
		CS 6	Total Test	12	17.1
			Anchor Set	4	19.0
		Total	Total Test	70	100.0
			Anchor Set	21	100.0
Reading	5	CS 1	Total Test	23	32.9
			Anchor Set	7	31.8
		CS 4	Total Test	20	28.6
			Anchor Set	6	27.3
		CS 5	Total Test	15	21.4
			Anchor Set	4	18.2
		CS 6	Total Test	12	17.1
			Anchor Set	5	22.7
		Total	Total Test	70	100.0
			Anchor Set	22	100.0
Reading	6	CS 1	Total Test	22	31.4
			Anchor Set	7	33.3
		CS 4	Total Test	19	27.1
			Anchor Set	5	23.8
		CS 5	Total Test	15	21.4
			Anchor Set	5	23.8
		CS 6	Total Test	14	20.0
			Anchor Set	4	19.0
		Total	Total Test	70	100.0
			Anchor Set	21	100.0
Reading	7	CS 1	Total Test	21	30.0
			Anchor Set	7	35.0
		CS 4	Total Test	18	25.7
			Anchor Set	5	25.0
		CS 5	Total Test	17	24.3
			Anchor Set	5	25.0
		CS 6	Total Test	14	20.0
			Anchor Set	3*	15.0
		Total	Total Test	70	100.0
			Anchor Set	20*	100.0

\* Content area in which item(s) were removed from calibration or anchor set.  
Count shown in this table does not include removed items.

**Table 147. CSAP Item and Anchor Count by Content Standard for  
Final Calibration Sample: Reading (Concluded)**

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Reading	8	CS 1	Total Test	24	34.3
			Anchor Set	7	31.8
		CS 4	Total Test	15	21.4
			Anchor Set	5	22.7
		CS 5	Total Test	15	21.4
			Anchor Set	5	22.7
		CS 6	Total Test	16	22.9
			Anchor Set	5	22.7
		Total	Total Test	70	100.0
			Anchor Set	22	100.0
Reading	9	CS 1	Total Test	21	30.0
			Anchor Set	6	28.6
		CS 4	Total Test	15	21.4
			Anchor Set	4	19.0
		CS 5	Total Test	19	27.1
			Anchor Set	6	28.6
		CS 6	Total Test	15	21.4
			Anchor Set	5	23.8
		Total	Total Test	70	100.0
			Anchor Set	21	100.0
Reading	10	CS 1	Total Test	21	30.4
			Anchor Set	7	30.4
		CS 4	Total Test	14	20.3
			Anchor Set	5	21.7
		CS 5	Total Test	19	27.5
			Anchor Set	5	21.7
		CS 6	Total Test	15*	21.7
			Anchor Set	6	26.1
		Total	Total Test	69*	100.0
			Anchor Set	23	100.0

\* Content area in which item(s) were removed from calibration or anchor set.  
Count shown in this table does not include removed items.



**Table 148. CSAP Item and Anchor Count by Content Standard for  
Final Calibration Sample: Mathematics**

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Mathematics	3	CS 1	Total Test	8	20.0
			Anchor Set	4	23.5
		CS 2/3	Total Test	11	27.5
			Anchor Set	4	23.5
		CS 4/5	Total Test	14	35.0
			Anchor Set	6	35.3
		CS 6	Total Test	7	17.5
			Anchor Set	3	17.6
		Total	Total Test	40	100.0
			Anchor Set	17	100.0
Mathematics	4	CS 1	Total Test	12	17.4
			Anchor Set	4	20.0
		CS 2	Total Test	11	15.9
			Anchor Set	3	15.0
		CS 3	Total Test	11	15.9
			Anchor Set	3	15.0
		CS 4/5	Total Test	21	30.4
			Anchor Set	6	30.0
		CS 6	Total Test	14	20.3
			Anchor Set	4	20.0
		Total	Total Test	69	100.0
			Anchor Set	20	100.0
Mathematics	5	CS 1	Total Test	16	23.2
			Anchor Set	4	21.1
		CS 2	Total Test	12	17.4
			Anchor Set	3	15.8
		CS 3	Total Test	11	15.9
			Anchor Set	4	21.1
		CS 4/5	Total Test	15	21.7
			Anchor Set	4	21.1
		CS 6	Total Test	15	21.7
			Anchor Set	4	21.1
		Total	Total Test	69	100.0
			Anchor Set	19	100.0

**Table 148. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Mathematics (Continued)**

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Mathematics	6	CS 1	Total Test	12	20.0
			Anchor Set	4	21.1
		CS 2	Total Test	10	16.7
			Anchor Set	4	21.1
		CS 3	Total Test	11	18.3
			Anchor Set	4	21.1
		CS 4/5	Total Test	16	26.7
			Anchor Set	5	26.3
		CS 6	Total Test	11	18.3
			Anchor Set	2	10.5
		Total	Total Test	60	100.0
			Anchor Set	19	100.0
Mathematics	7	CS 1/6	Total Test	18*	30.5
			Anchor Set	7	33.3
		CS 2	Total Test	12	20.3
			Anchor Set	4	19.0
		CS 3	Total Test	12	20.3
			Anchor Set	4	19.0
		CS 4/5	Total Test	17	28.8
			Anchor Set	6	28.6
		Total	Total Test	59*	100.0
			Anchor Set	21	100.0
Mathematics	8	CS 1/6	Total Test	15	25.0
			Anchor Set	4	19.0
		CS 2	Total Test	15	25.0
			Anchor Set	6	28.6
		CS 3	Total Test	12	20.0
			Anchor Set	5	23.8
		CS 4/5	Total Test	18	30.0
			Anchor Set	6	28.6
		Total	Total Test	60	100.0
			Anchor Set	21	100.0
Mathematics	9	CS 1/6	Total Test	14	23.3
			Anchor Set	4	20.0
		CS 2	Total Test	17	28.3
			Anchor Set	4	20.0
		CS 3	Total Test	15	25.0
			Anchor Set	7	35.0
		CS 4/5	Total Test	14	23.3
			Anchor Set	5	25.0
		Total	Total Test	60	100.0
			Anchor Set	20	100.0

\* Content area in which item(s) were removed from calibration.  
Count shown in this table does not include removed items.

**Table 148. CSAP Item and Anchor Count by Content Standard for  
Final Calibration Sample: Mathematics (Concluded)**

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Mathematics	10	CS 1/6	Total Test	13*	22.0
			Anchor Set	4	20.0
		CS 2	Total Test	17	28.8
			Anchor Set	6	30.0
		CS 3	Total Test	15	25.4
			Anchor Set	5	25.0
		CS 4/5	Total Test	14	23.7
			Anchor Set	5	25.0
		Total	Total Test	59*	100.0
			Anchor Set	20	100.0

\* Content area in which item(s) were removed from calibration.  
Count shown in this table does not include removed items.

**Table 149. CSAP Item and Anchor Count by Content Standard for  
Final Calibration Sample: Writing**

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Writing	3	CS 2	Total Test	21	39.6
			Anchor Set	9	47.4
		CS 3	Total Test	32	60.4
			Anchor Set	10	52.6
		Total	Total Test	53	100.0
			Anchor Set	19	100.0
Writing	4	CS 2	Total Test	21	39.6
			Anchor Set	11	55.0
		CS 3	Total Test	32	60.4
			Anchor Set	9	45.0
		Total	Total Test	53	100.0
			Anchor Set	20	100.0
Writing	5	CS 2	Total Test	21	39.6
			Anchor Set	8	40.0
		CS 3	Total Test	32	60.4
			Anchor Set	12	60.0
		Total	Total Test	53	100.0
			Anchor Set	20	100.0
Writing	6	CS 2	Total Test	21	39.6
			Anchor Set	10	45.5
		CS 3	Total Test	32	60.4
			Anchor Set	12	54.5
		Total	Total Test	53	100.0
			Anchor Set	22	100.0
Writing	7	CS 2	Total Test	21	39.6
			Anchor Set	9	45.0
		CS 3	Total Test	32	60.4
			Anchor Set	11	55.0
		Total	Total Test	53	100.0
			Anchor Set	20	100.0
Writing	8	CS 2	Total Test	21	39.6
			Anchor Set	8	44.4
		CS 3	Total Test	32	60.4
			Anchor Set	10	55.6
		Total	Total Test	53	100.0
			Anchor Set	18	100.0
Writing	9	CS 2	Total Test	21	40.4
			Anchor Set	9	45.0
		CS 3	Total Test	31*	59.6
			Anchor Set	11	55.0
		Total	Total Test	52*	100.0
			Anchor Set	20	100.0

\* Content area in which item(s) were removed from calibration.  
Count shown in this table does not include removed items.

**Table 149. CSAP Item and Anchor Count by Content Standard for  
Final Calibration Sample: Writing (Concluded)**

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Writing	10	CS 2	Total Test	21	39.6
			Anchor Set	8	44.4
		CS 3	Total Test	32	60.4
			Anchor Set	10	55.6
		Total	Total Test	53	100.0
			Anchor Set	18	100.0

**Table 150. CSAP Item and Anchor Count by Content Standard for  
Final Calibration Sample: Science**

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Science	5	CS 1/6	Total Test	31*	42.5
			Anchor Set*	8	38.1
		CS 2/5	Total Test	14*	19.2
			Anchor Set*	4	19.0
		CS 3/5	Total Test	14	19.2
			Anchor Set*	4	19.0
		CS 4/5	Total Test	14	19.2
			Anchor Set*	5	23.8
		Total	Total Test	73*	100.0
			Anchor Set	21	100.0
Science	8	CS 1/6	Total Test	32*	39.5
			Anchor Set	10	40.0
		CS 2/5	Total Test	16	19.8
			Anchor Set	5	20.0
		CS 3/5	Total Test	16*	21.0
			Anchor Set	5	20.0
		CS 4/5	Total Test	17	19.8
			Anchor Set	5	20.0
		Total	Total Test	81*	100.0
			Anchor Set	25	100.0
Science	10	CS 1/6	Total Test	32	38.6
			Anchor Set*	8	38.1
		CS 2/5	Total Test	17	20.5
			Anchor Set*	5	23.8
		CS 3/5	Total Test	16	19.3
			Anchor Set*	4	19.0
		CS 4/5	Total Test	18	21.7
			Anchor Set*	4	19.0
		Total	Total Test	83	100.0
			Anchor Set	21	100.0

\* Content area in which item(s) were removed from calibration.  
Count shown in this table does not include removed items.

**Table 151. CSAP Item and Anchor Count by Content Standard for  
Final Calibration Sample: Reading & Writing Spanish**

<b>Content Area</b>	<b>Grade</b>	<b>Content Standard</b>	<b>Item Set</b>	<b>No. of Items</b>	<b>Percentage</b>
Reading Spanish	3	CS 1	Total Test	40	100.0
			Anchor Set	18	100.0
		Total	Total Test	40	100.0
			Anchor Set	18	100.0
Writing Spanish	3	CS 2	Total Test	21	39.6
			Anchor Set	5	27.8
		CS 3	Total Test	32	60.4
			Anchor Set	13	72.2
		Total	Total Test	53	100.0
			Anchor Set	18	100.0
Reading Spanish	4	CS 1	Total Test	31	44.3
		CS 4	Total Test	14	20.0
		CS 5	Total Test	13	18.6
		CS 6	Total Test	12	17.1
		Total	Total Test	70	100.0
Writing Spanish	4	CS 2	Total Test	19	35.8
		CS 3	Total Test	34	64.2
		Total	Total Test	53	100.0

Grade 4 Spanish Reading and Writing were pre-equated and did not use anchor items.

**Table 152. Scale Score Descriptive Statistics by Gender**

Content Area	Grade	Gender											
		Female				Male				Total			
		N	Mean	SD	Median	N	Mean	SD	Median	N	Mean	SD	Median
Reading	3	27533	561	78.5	567	28658	550	84.9	559	56196	555	82.0	563
	4	27659	592	66.1	600	28612	577	73.5	588	56276	584	70.3	594
	5	27715	618	64.7	624	28989	604	73.1	614	56707	611	69.5	619
	6	27422	631	66.2	638	28897	617	74.3	629	56320	624	70.8	633
	7	27729	643	66.0	651	29035	629	72.9	639	56765	636	70.0	645
	8	28117	654	58.3	659	29488	639	64.1	647	57605	647	61.8	653
	9	29168	667	50.5	672	30355	652	58.2	659	59530	660	55.0	665
	10	26874	694	51.0	699	27817	673	62.1	683	54697	683	57.8	691
Spanish Reading	3	789	525	44.7	528	783	513	46.2	516	1572	519	45.9	522
	4	119	527	39.7	526	145	521	39.7	521	264	524	39.7	524
Writing	3	27567	476	49.1	477	28683	461	49.9	463	56258	469	50.1	470
	4	27670	491	52.4	490	28604	475	49.9	477	56279	483	51.7	483
	5	27716	518	54.9	518	28985	496	53.4	497	56704	507	55.2	507
	6	27444	539	61.4	539	28935	515	61.9	517	56380	527	62.9	528
	7	27716	572	70.0	571	29052	542	69.0	542	56769	557	71.1	556
	8	28133	573	72.4	572	29500	543	72.4	545	57633	558	74.1	558
	9	29175	580	75.8	579	30341	547	76.2	549	59523	563	77.7	564
	10	26854	598	80.0	599	27824	563	80.5	565	54684	580	82.1	582
Spanish Writing	3	794	518	68.4	517	784	492	64.5	493	1578	505	67.8	506
	4	120	517	37.3	516	144	507	39.7	507	264	512	38.9	511
Mathematics	3	28388	456	85.7	457	29516	457	85.8	458	57914	457	85.7	458
	4	27811	490	77.0	493	28826	493	79.7	499	56644	491	78.4	496
	5	27712	519	76.0	522	29016	520	81.4	524	56736	519	78.8	523
	6	27471	536	74.5	537	28974	538	79.3	541	56452	537	77.0	539
	7	27738	557	67.7	559	29107	557	73.7	560	56847	557	70.9	560
	8	28118	565	62.5	570	29502	566	69.4	571	57620	566	66.1	570
	9	29280	570	69.4	577	30537	570	77.9	578	59825	570	73.9	577
	10	26976	584	69.3	590	27984	588	76.6	596	54969	586	73.1	593
Science	5	27724	551	56.0	555	29009	556	59.3	560	56737	553	57.7	557
	8	28121	502	58.1	507	29505	504	64.5	511	57631	503	61.5	509
	10	26997	500	57.8	508	28001	506	64.7	516	55003	503	61.5	512



**Table 153. Scale Score Descriptive Statistics by Content Standard**

Content Area	Grade	Content Standard																				
		1			2			3			4			5			6			Total		
		Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median
Reading	3	555	82.0	563	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	555	82.0	563
Reading	4	586	80.7	593	.	.	.	.	.	.	579	95.7	595	585	93.2	593	589	90.1	594	584	70.3	594
Reading	5	609	84.6	618	.	.	.	.	.	.	613	98.3	619	617	98.2	618	614	86.2	619	611	69.5	619
Reading	6	622	82.8	633	.	.	.	.	.	.	629	98.3	634	622	86.5	633	621	90.1	633	624	70.8	633
Reading	7	634	83.7	644	.	.	.	.	.	.	638	88.0	646	636	90.4	646	639	88.3	644	636	70.0	645
Reading	8	648	70.6	653	.	.	.	.	.	.	648	77.4	653	647	77.5	652	643	83.7	654	647	61.8	653
Reading	9	660	65.8	665	.	.	.	.	.	.	656	76.4	667	659	74.1	665	661	68.8	666	660	55.0	665
Reading	10	682	70.4	691	.	.	.	.	.	.	683	71.6	693	685	74.2	691	683	73.1	692	683	57.8	691
Spanish Reading	3	519	45.9	522	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	519	45.9	522
Spanish Reading	4	524	52.0	523	.	.	.	.	.	.	513	65.3	524	523	72.0	530	516	50.2	516	524	39.7	524
Writing	3	.	.	.	469	56.0	470	475	65.6	470	.	.	.	.	.	.	.	.	.	469	50.1	470
Writing	4	.	.	.	484	56.3	483	488	65.9	484	.	.	.	.	.	.	.	.	.	483	51.7	483
Writing	5	.	.	.	508	60.5	506	510	63.6	508	.	.	.	.	.	.	.	.	.	507	55.2	507
Writing	6	.	.	.	528	69.8	528	530	71.9	528	.	.	.	.	.	.	.	.	.	527	62.9	528
Writing	7	.	.	.	559	78.3	556	559	80.8	557	.	.	.	.	.	.	.	.	.	557	71.1	556
Writing	8	.	.	.	560	81.1	557	560	85.0	559	.	.	.	.	.	.	.	.	.	558	74.1	558
Writing	9	.	.	.	566	85.3	563	566	87.2	565	.	.	.	.	.	.	.	.	.	563	77.7	564
Writing	10	.	.	.	583	90.2	579	582	92.4	582	.	.	.	.	.	.	.	.	.	580	82.1	582
Spanish Writing	3	.	.	.	507	76.1	505	509	76.6	505	.	.	.	.	.	.	.	.	.	505	67.8	506
Spanish Writing	4	.	.	.	508	46.3	506	514	41.3	513	.	.	.	.	.	.	.	.	.	512	38.9	511
Mathematics	3	468	120.9	455	471	115.8	455	.	.	.	472	113.6	458	.	.	.	463	110.6	464	457	85.7	458
Mathematics	4	499	99.7	497	505	111.8	495	502	111.0	498	496	92.8	496	.	.	.	524	135.6	498	491	78.4	496
Mathematics	5	525	100.4	522	524	102.3	523	526	97.4	522	523	100.3	524	.	.	.	537	117.9	524	519	78.8	523
Mathematics	6	537	97.1	540	545	97.6	541	540	96.4	540	540	95.7	540	.	.	.	548	117.5	539	537	77.0	539
Mathematics	7	558	82.8	560	562	92.5	562	552	89.4	563	552	88.3	560	.	.	.	.	.	.	557	70.9	560
Mathematics	8	558	87.5	571	564	78.1	570	563	82.6	572	563	79.1	570	.	.	.	.	.	.	566	66.1	570
Mathematics	9	558	101.3	577	567	82.4	578	566	84.2	578	565	90.1	576	.	.	.	.	.	.	570	73.9	577
Mathematics	10	581	92.4	593	582	84.5	593	585	82.3	593	579	88.2	591	.	.	.	.	.	.	586	73.1	593
Science	5	555	64.3	558	557	75.1	557	563	81.6	558	557	75.0	558	.	.	.	.	.	.	553	57.7	557
Science	8	503	65.2	509	491	85.3	507	502	73.4	510	503	71.8	509	.	.	.	.	.	.	503	61.5	509
Science	10	504	66.8	512	500	76.2	510	500	73.2	511	504	73.9	513	.	.	.	.	.	.	503	61.5	512

**Table 154. Scale Score Descriptive Statistics by Subcontent Area**

Content Area		Subcontent Area																								Total		
		1			2			3			4			5			6			7			8					
		Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median
Reading	3	557	94.1	564	555	101.	563	596	141.4	563																555	82.0	563
Reading	4	585	75.5	594	582	99.0	594	652	182.8	604	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	584	70.3	594
Reading	5	612	77.7	619	610	89.7	618	599	155.8	620	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	611	69.5	619
Reading	6	623	84.0	632	622	83.5	634	651	142.6	634	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	624	70.8	633
Reading	7	637	81.0	646	619	126.	646	657	135.1	646	639	100.	644	.	.	.	.	.	.	.	.	.	.	.	.	636	70.0	645
Reading	8	648	79.7	655	647	74.0	653	667	123.2	655	619	129.	654	.	.	.	.	.	.	.	.	.	.	.	.	647	61.8	653
Reading	9	665	95.6	667	658	63.4	666	683	126.9	671	662	82.3	665	.	.	.	.	.	.	.	.	.	.	.	.	660	55.0	665
Reading	10	684	67.3	692	676	85.0	692	706	122.7	697	685	115.	691	.	.	.	.	.	.	.	.	.	.	.	.	683	57.8	691
Spanish																												
Reading	3	518	55.8	524	518	61.9	521	518	70.4	524	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	519	45.9	522
Spanish																												
Reading	4	520	42.3	523	521	58.7	523	537	85.6	528	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	524	39.7	524
Writing	3	.	.	.	.	.	.	.	.	.	471	58.9	472	.	.	.	.	.	.	483	86.7	471	491	97.7	473	469	50.1	470
Writing	4	.	.	.	.	.	.	.	.	.	487	64.6	481	494	87.8	479	493	83.5	485	505	111.2	491	483	51.7	483	483	51.7	483
Writing	5	.	.	.	.	.	.	.	.	.	509	65.9	507	530	112.9	538	512	73.2	509	515	93.1	510	507	55.2	507	507	55.2	507
Writing	6	.	.	.	.	.	.	.	.	.	530	80.0	527	539	104.0	600	531	83.4	529	533	93.8	529	527	62.9	528	527	62.9	528
Writing	7	.	.	.	.	.	.	.	.	.	561	88.8	555	573	105.0	648	562	93.9	558	563	102.8	558	557	71.1	556	557	71.1	556
Writing	8	.	.	.	.	.	.	.	.	.	563	94.0	559	577	119.5	601	560	100.6	559	571	116.9	560	558	74.1	558	558	74.1	558
Writing	9	.	.	.	.	.	.	.	.	.	569	97.4	564	580	124.1	635	566	108.6	566	568	106.2	564	563	77.7	564	563	77.7	564
Writing	10	.	.	.	.	.	.	.	.	.	586	104.9	579	594	123.2	649	582	104.3	585	582	134.1	584	580	82.1	582	580	82.1	582
Spanish																												
Writing	3	.	.	.	.	.	.	.	.	.	520	96.6	523	.	.	.	.	.	.	515	90.5	508	516	115.3	508	505	67.8	506
Spanish																												
Writing	4	.	.	.	.	.	.	.	.	.	507	53.4	503	513	79.9	491	514	56.6	511	496	83.3	511	512	38.9	511	512	38.9	511
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	457	85.7	458
Mathematics	4	498	98.4	496	508	116.	496	516	133.7	498	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	491	78.4	496
Mathematics	5	524	97.7	523	530	115.	524	534	112.6	523	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	519	78.8	523
Mathematics	6	538	91.8	537	547	101.	541	540	109.3	541	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	537	77.0	539
Mathematics	7	563	122.	560	542	112.	560	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	557	70.9	560
Mathematics	8	563	81.4	566	558	89.0	571	555	93.9	572	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	566	66.1	570
Mathematics	9	566	84.8	578	563	92.5	573	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	570	73.9	577
Mathematics	10	587	86.1	595	573	118.	587	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	586	73.1	593
Science	5	562	78.2	558	554	75.5	557	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	553	57.7	557
Science	8	503	77.4	509	509	77.7	510	494	98.6	507	466	117.	510	503	76.8	509	.	.	.	.	.	.	.	.	.	503	61.5	509
Science	10	507	72.4	512	505	79.2	512	494	93.7	509	503	103.	511	507	87.9	512	.	.	.	.	.	.	.	.	.	503	61.5	512

**Table 155. Raw Score Descriptive Statistics by Content Standard**

Content Area	Grade	Content Standard																				Total							
		1				2				3				4				5								6			
		Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.
Reading	3	34	9.6	36	64.9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	34	9.6	36	64.9	
Reading	4	24	6.4	25	63.8	.	.	.	.	.	.	.	.	9	3.6	10	52.3	11	3.6	12	62.5	12	3.4	12	64	56	15.5	59	61.3
Reading	5	19	6.1	19	60.1	.	.	.	.	.	.	.	.	13	4.0	14	66.6	13	4.2	14	66	13	4.0	14	63.6	58	16.7	61	63.6
Reading	6	18	5.9	18	56.6	.	.	.	.	.	.	.	.	13	4.3	14	66.7	11	4.0	11	55.1	11	4.0	11	54.3	53	16.5	55	58
Reading	7	17	6.2	18	55.3	.	.	.	.	.	.	.	.	13	4.0	14	63.8	12	4.1	12	59.8	12	4.2	13	59.8	54	16.8	56	59.2
Reading	8	20	5.7	21	64.8	.	.	.	.	.	.	.	.	12	4.2	13	60.3	12	3.9	12	60.4	11	3.9	11	53.7	55	16.2	57	60.4
Reading	9	20	6.6	21	62.2	.	.	.	.	.	.	.	.	12	3.9	12	55.2	12	4.1	13	59.4	12	4.2	13	58.7	56	17.1	59	59.3
Reading	10	17	6.4	18	53.6	.	.	.	.	.	.	.	.	13	4.4	14	60	13	4.1	13	62.2	11	3.7	11	55.4	54	17.1	56	57.3
Spanish Reading	3	30	9.8	31	57.4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30	9.8	31	57.4	
Spanish Reading	4	22	7.2	22	58.5	.	.	.	.	.	.	.	.	9	3.7	9	48	9	3.5	9	50.9	8	3.0	8	44.5	47	15.6	47	52.2
Writing	3	.	.	.	.	17	3.8	17	69.7	25	5.6	27	78.5	.	.	.	.	.	.	.	.	.	.	.	42	8.9	44	74.7	
Writing	4	.	.	.	.	25	5.3	25	68.5	25	5.8	27	76.4	.	.	.	.	.	.	.	.	.	.	.	50	10.5	52	72.2	
Writing	5	.	.	.	.	24	5.5	25	66.5	23	5.8	25	71.3	.	.	.	.	.	.	.	.	.	.	.	47	10.7	49	68.8	
Writing	6	.	.	.	.	24	5.2	25	66.7	22	5.8	23	68.2	.	.	.	.	.	.	.	.	.	.	.	46	10.3	48	67.4	
Writing	7	.	.	.	.	25	5.4	26	69.3	22	5.9	23	66.1	.	.	.	.	.	.	.	.	.	.	.	47	10.6	49	67.7	
Writing	8	.	.	.	.	25	5.6	26	69.4	22	5.9	23	67.6	.	.	.	.	.	.	.	.	.	.	.	47	10.8	49	68.5	
Writing	9	.	.	.	.	24	5.8	25	68	20	6.1	20	61.5	.	.	.	.	.	.	.	.	.	.	.	44	11.3	46	65	
Writing	10	.	.	.	.	25	5.5	26	69.4	20	6.6	21	61.7	.	.	.	.	.	.	.	.	.	.	.	45	11.4	47	65.7	
Spanish Writing	3	.	.	.	.	16	4.4	17	68.1	24	5.6	24	73.6	.	.	.	.	.	.	.	.	.	.	.	40	9.3	42	71.2	
Spanish Writing	4	.	.	.	.	18	5.1	18	52.7	19	5.9	19	54.6	.	.	.	.	.	.	.	.	.	.	.	37	10.1	37	53.7	
Mathematics	3	7	2.3	7	68.2	10	2.7	10	74.7	.	.	.	.	13	3.0	14	78.4	.	.	.	.	7	2.1	7	67.4	37	8.9	38	73.2
Mathematics	4	13	3.6	14	70.9	12	3.5	13	72	10	2.9	10	68.6	20	5.5	21	69.5	.	.	.	.	14	3.2	14	79.9	69	16.7	73	72
Mathematics	5	13	3.9	13	68.2	12	4.5	13	64.5	13	3.9	14	69.1	13	4.6	14	64	.	.	.	.	14	3.6	15	76	65	18.5	69	68.2
Mathematics	6	9	4.4	8	51.8	12	3.2	12	68.6	12	3.8	12	64	14	5.0	14	62.8	.	.	.	.	8	3.0	8	64.3	54	17.4	55	62.2
Mathematics	7	14	5.6	14	55.3	10	3.5	11	61	9	3.7	8	47.6	12	5.9	12	47.3	.	.	.	.	.	.	.	.	45	17.1	44	52.4
Mathematics	8	9	4.8	8	40.6	11	4.6	11	50.9	9	4.0	9	51.7	13	5.3	12	48.3	.	.	.	.	.	.	.	.	41	17.3	40	47.6
Mathematics	9	7	3.9	6	37	10	5.4	10	40	9	4.2	9	41.6	9	4.1	8	41.3	.	.	.	.	.	.	.	.	35	16.0	32	40.1
Mathematics	10	7	3.3	6	40.9	11	6.3	10	42.9	10	4.2	9	45	7	3.5	6	31.4	.	.	.	.	.	.	.	.	34	15.7	32	40.1
Science	5	24	6.9	26	67.5	10	2.7	10	65.3	14	2.8	14	76.5	11	3.1	12	67.4	.	.	.	.	.	.	.	.	59	13.9	62	69
Science	8	24	7.8	25	60.5	8	3.9	7	39.4	10	3.2	10	50.7	9	3.6	9	49.6	.	.	.	.	.	.	.	.	51	16.4	51	52.1
Science	10	23	7.5	24	59.8	10	4.5	10	48	9	3.6	9	44.7	11	4.0	12	53.1	.	.	.	.	.	.	.	.	53	17.6	54	52.9

**Table 156. Raw Score Descriptive Statistics by Subcontent Area**

Content Area	Grade	Subcontent Area															
		1				2				3				4			
		Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.
Reading	3	12	4.1	13	62	13	4.2	14	61.4	8	2.3	8	78.1	.	.	.	.
Reading	4	25	7.5	27	58	11	3.7	12	58.6	8	2.1	9	79.1	.	.	.	.
Reading	5	24	7	26	65.4	15	5	15	61	6	2.3	6	58.8	.	.	.	.
Reading	6	13	4.8	13	53.9	21	6.9	22	58.5	8	2.5	8	70.6	.	.	.	.
Reading	7	19	6.3	21	60.7	8	3.3	8	50.2	7	2.3	7	65.9	8	3.1	9	59.4
Reading	8	17	5.5	18	64.5	15	4.8	16	61.5	7	2.2	7	66.7	4	2.1	4	40.9
Reading	9	9	3.1	10	64.5	18	6.8	19	53.8	7	2.1	7	69.5	10	3.4	10	59.9
Reading	10	19	6.1	20	58.4	9	4.5	10	44.9	7	2.1	7	70	6	2.5	6	57.3
Spanish Reading	3	14	5	15	59	9	3.6	9	54.9	7	2.4	7	57.6	.	.	.	.
Spanish Reading	4	18	6.9	18	48	13	4.7	13	53.3	7	2.3	8	66.2	.	.	.	.
Writing	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Writing	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Writing	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Writing	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Writing	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Writing	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Writing	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Writing	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Spanish Writing	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Spanish Writing	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mathematics	4	14	4	15	69.1	11	3.2	11	71.9	8	2.2	9	75.1	.	.	.	.
Mathematics	5	12	3.6	13	68.4	9	3.6	10	64.5	11	3.2	11	71.5	.	.	.	.
Mathematics	6	10	4.7	10	53.4	10	2.9	11	69.7	10	3.9	10	60.6	.	.	.	.
Mathematics	7	6	3.2	6	55.2	5	3	4	37.5	.	.	.	.	.	.	.	.
Mathematics	8	6	2.8	5	45.3	8	4.4	8	40.9	5	2.7	5	38.8	.	.	.	.
Mathematics	9	8	4.4	7	37.9	6	3.5	5	35.4	.	.	.	.	.	.	.	.
Mathematics	10	8	3.7	8	48.5	3	1.6	3	39.3	.	.	.	.	.	.	.	.
Science	5	14	4	15	72	10	3.3	10	62.1	.	.	.	.	.	.	.	.
Science	8	8	3.4	8	54.1	14	4.2	15	67.5	4	2.4	4	40.6	4	2	4	38.2
Science	10	12	3.7	12	60.8	11	4.1	12	59.6	4	2.1	3	39.3	5	2.5	5	51.5

**Table 156. Raw Score Descriptive Statistics by Subcontent Area (Concluded)**

			Subcontent Area																Total			
			5				6				7				8							
			Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.	Mean	SD	Median	Mean % of Max.
Content Area	Grade																					
Reading	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	34	9.6	36	64.9		
Reading	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	56	16	59	61.3		
Reading	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	58	17	61	63.6		
Reading	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	53	17	55	58		
Reading	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	54	17	56	59.2		
Reading	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	55	16	57	60.4		
Reading	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	56	17	59	59.3		
Reading	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	54	17	56	57.3		
Spanish Reading	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30	9.8	31	57.4		
Spanish Reading	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	47	16	47	52.2		
Writing	3	14	3.3	15	71.2	.	.	.	.	11	2.8	12	75.7	11	2.7	12	79.9	42	8.9	44	74.7	
Writing	4	13	3.1	14	67.2	8	1.7	8	71.9	17	4.1	18	76.1	7	2	7	73	50	11	52	72.2	
Writing	5	14	3.6	14	64.2	8	1.9	9	74.4	15	3.7	16	70.7	9	3.2	10	67.3	47	11	49	68.8	
Writing	6	12	2.8	12	64.4	8	1.5	9	73.2	17	4.7	18	69.2	8	2.8	9	63.2	46	10	48	67.4	
Writing	7	12	3	12	64.2	8	1.6	9	71.8	14	3.8	15	67.4	11	3.7	12	66.9	47	11	49	67.7	
Writing	8	12	3	12	66.4	8	1.5	9	76.3	12	3.7	12	63	11	3.3	12	71.5	47	11	49	68.5	
Writing	9	13	3.4	14	66.3	8	2	9	69.8	10	3.5	10	59.5	10	3.4	11	63.5	44	11	46	65	
Writing	10	12	3.2	12	64.3	8	1.9	9	70.8	13	4.5	14	61.7	6	2.5	7	58.5	45	11	47	65.7	
Spanish Writing	3	11	3.3	12	71.5	.	.	.	.	15	3.6	16	74.7	7	2.4	7	66.7	40	9.3	42	71.2	
Spanish Writing	4	9	3.1	8	47.2	6	2.1	6	57.8	11	3.7	11	59.6	6	3	6	46.2	37	10	37	53.7	
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	37	8.9	38	73.2		
Mathematics	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	69	17	73	72		
Mathematics	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	65	19	69	68.2		
Mathematics	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	54	17	55	62.2		
Mathematics	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	45	17	44	52.4		
Mathematics	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	41	17	40	47.6		
Mathematics	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	35	16	32	40.1		
Mathematics	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	34	16	32	40.1		
Science	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	59	14	62	69		
Science	8	6	2.7	6	48	.	.	.	.	.	.	.	.	.	.	.	51	16	51	52.1		
Science	10	7	2.8	7	57.8	.	.	.	.	.	.	.	.	.	.	.	53	18	54	52.9		

**Table 157. Reading 3 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
150	495	0.88	495	0.88	270	6	0.01	642	1.14	321	6	0.01	903	1.61
212	1	0.00	496	0.88	271	3	0.01	645	1.15	322	6	0.01	909	1.62
213	1	0.00	497	0.88	272	9	0.02	654	1.16	323	5	0.01	914	1.63
215	4	0.01	501	0.89	273	1	0.00	655	1.17	324	9	0.02	923	1.64
220	3	0.01	504	0.90	274	1	0.00	656	1.17	325	4	0.01	927	1.65
221	1	0.00	505	0.90	275	9	0.02	665	1.18	326	7	0.01	934	1.66
223	2	0.00	507	0.90	277	5	0.01	670	1.19	327	3	0.01	937	1.67
224	2	0.00	509	0.91	278	3	0.01	673	1.20	328	10	0.02	947	1.69
225	4	0.01	513	0.91	279	9	0.02	682	1.21	329	2	0.00	949	1.69
226	1	0.00	514	0.91	280	9	0.02	691	1.23	330	7	0.01	956	1.70
227	2	0.00	516	0.92	281	4	0.01	695	1.24	331	3	0.01	959	1.71
228	3	0.01	519	0.92	282	4	0.01	699	1.24	332	9	0.02	968	1.72
229	1	0.00	520	0.93	283	4	0.01	703	1.25	333	7	0.01	975	1.73
231	2	0.00	522	0.93	284	4	0.01	707	1.26	334	9	0.02	984	1.75
233	5	0.01	527	0.94	285	2	0.00	709	1.26	335	5	0.01	989	1.76
234	3	0.01	530	0.94	286	5	0.01	714	1.27	336	5	0.01	994	1.77
235	2	0.00	532	0.95	287	9	0.02	723	1.29	337	11	0.02	1005	1.79
236	2	0.00	534	0.95	288	3	0.01	726	1.29	338	13	0.02	1018	1.81
237	1	0.00	535	0.95	289	6	0.01	732	1.30	339	9	0.02	1027	1.83
238	2	0.00	537	0.96	290	7	0.01	739	1.32	340	14	0.02	1041	1.85
239	2	0.00	539	0.96	291	4	0.01	743	1.32	341	10	0.02	1051	1.87
240	3	0.01	542	0.96	292	3	0.01	746	1.33	342	7	0.01	1058	1.88
241	7	0.01	549	0.98	293	3	0.01	749	1.33	343	7	0.01	1065	1.90
242	4	0.01	553	0.98	294	3	0.01	752	1.34	344	13	0.02	1078	1.92
243	2	0.00	555	0.99	295	3	0.01	755	1.34	345	10	0.02	1088	1.94
244	2	0.00	557	0.99	296	7	0.01	762	1.36	346	6	0.01	1094	1.95
246	3	0.01	560	1.00	297	3	0.01	765	1.36	347	6	0.01	1100	1.96
247	1	0.00	561	1.00	298	4	0.01	769	1.37	348	7	0.01	1107	1.97
248	2	0.00	563	1.00	299	8	0.01	777	1.38	349	12	0.02	1119	1.99
249	3	0.01	566	1.01	300	9	0.02	786	1.40	350	12	0.02	1131	2.01
250	3	0.01	569	1.01	301	2	0.00	788	1.40	351	6	0.01	1137	2.02
251	3	0.01	572	1.02	302	7	0.01	795	1.41	352	15	0.03	1152	2.05
252	2	0.00	574	1.02	303	6	0.01	801	1.43	353	15	0.03	1167	2.08
253	2	0.00	576	1.02	304	4	0.01	805	1.43	354	11	0.02	1178	2.10
254	4	0.01	580	1.03	305	3	0.01	808	1.44	355	12	0.02	1190	2.12
255	4	0.01	584	1.04	306	7	0.01	815	1.45	356	13	0.02	1203	2.14
256	3	0.01	587	1.04	307	3	0.01	818	1.46	357	11	0.02	1214	2.16
257	5	0.01	592	1.05	308	3	0.01	821	1.46	358	12	0.02	1226	2.18
258	2	0.00	594	1.06	309	4	0.01	825	1.47	359	15	0.03	1241	2.21
259	6	0.01	600	1.07	310	4	0.01	829	1.48	360	19	0.03	1260	2.24
260	2	0.00	602	1.07	311	11	0.02	840	1.49	361	13	0.02	1273	2.27
261	3	0.01	605	1.08	312	6	0.01	846	1.51	362	9	0.02	1282	2.28
262	3	0.01	608	1.08	313	10	0.02	856	1.52	363	15	0.03	1297	2.31
263	3	0.01	611	1.09	314	3	0.01	859	1.53	364	11	0.02	1308	2.33
264	4	0.01	615	1.09	315	4	0.01	863	1.54	365	9	0.02	1317	2.34
265	6	0.01	621	1.11	316	6	0.01	869	1.55	366	15	0.03	1332	2.37
266	7	0.01	628	1.12	317	5	0.01	874	1.56	367	9	0.02	1341	2.39
267	1	0.00	629	1.12	318	6	0.01	880	1.57	368	23	0.04	1364	2.43
268	2	0.00	631	1.12	319	7	0.01	887	1.58	369	16	0.03	1380	2.46
269	5	0.01	636	1.13	320	10	0.02	897	1.60	370	14	0.02	1394	2.48

**Table 157. Reading 3 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
371	10	0.02	1404	2.50	421	35	0.06	2729	4.86	471	99	0.18	6144	10.93
372	15	0.03	1419	2.53	422	33	0.06	2762	4.91	472	110	0.20	6254	11.13
373	17	0.03	1436	2.56	423	39	0.07	2801	4.98	473	119	0.21	6373	11.34
374	28	0.05	1464	2.61	424	53	0.09	2854	5.08	474	107	0.19	6480	11.53
375	12	0.02	1476	2.63	425	56	0.10	2910	5.18	475	126	0.22	6606	11.76
376	14	0.02	1490	2.65	426	47	0.08	2957	5.26	476	116	0.21	6722	11.96
377	21	0.04	1511	2.69	427	36	0.06	2993	5.33	477	125	0.22	6847	12.18
378	23	0.04	1534	2.73	428	51	0.09	3044	5.42	478	129	0.23	6976	12.41
379	14	0.02	1548	2.75	429	40	0.07	3084	5.49	479	104	0.19	7080	12.60
380	13	0.02	1561	2.78	430	47	0.08	3131	5.57	480	142	0.25	7222	12.85
381	20	0.04	1581	2.81	431	45	0.08	3176	5.65	481	145	0.26	7367	13.11
382	18	0.03	1599	2.85	432	57	0.10	3233	5.75	482	136	0.24	7503	13.35
383	16	0.03	1615	2.87	433	50	0.09	3283	5.84	483	130	0.23	7633	13.58
384	13	0.02	1628	2.90	434	54	0.10	3337	5.94	484	128	0.23	7761	13.81
385	26	0.05	1654	2.94	435	51	0.09	3388	6.03	485	109	0.19	7870	14.00
386	22	0.04	1676	2.98	436	58	0.10	3446	6.13	486	118	0.21	7988	14.21
387	32	0.06	1708	3.04	437	46	0.08	3492	6.21	487	147	0.26	8135	14.48
388	16	0.03	1724	3.07	438	61	0.11	3553	6.32	488	129	0.23	8264	14.71
389	14	0.02	1738	3.09	439	55	0.10	3608	6.42	489	149	0.27	8413	14.97
390	23	0.04	1761	3.13	440	57	0.10	3665	6.52	490	174	0.31	8587	15.28
391	30	0.05	1791	3.19	441	61	0.11	3726	6.63	491	144	0.26	8731	15.54
392	24	0.04	1815	3.23	442	71	0.13	3797	6.76	492	156	0.28	8887	15.81
393	22	0.04	1837	3.27	443	60	0.11	3857	6.86	493	183	0.33	9070	16.14
394	25	0.04	1862	3.31	444	57	0.10	3914	6.96	494	138	0.25	9208	16.39
395	29	0.05	1891	3.37	445	64	0.11	3978	7.08	495	158	0.28	9366	16.67
396	20	0.04	1911	3.40	446	71	0.13	4049	7.21	496	175	0.31	9541	16.98
397	23	0.04	1934	3.44	447	69	0.12	4118	7.33	497	178	0.32	9719	17.29
398	30	0.05	1964	3.49	448	55	0.10	4173	7.43	498	186	0.33	9905	17.63
399	31	0.06	1995	3.55	449	56	0.10	4229	7.53	499	163	0.29	10068	17.92
400	25	0.04	2020	3.59	450	69	0.12	4298	7.65	500	183	0.33	10251	18.24
401	34	0.06	2054	3.66	451	75	0.13	4373	7.78	501	187	0.33	10438	18.57
402	24	0.04	2078	3.70	452	68	0.12	4441	7.90	502	200	0.36	10638	18.93
403	40	0.07	2118	3.77	453	63	0.11	4504	8.01	503	207	0.37	10845	19.30
404	28	0.05	2146	3.82	454	71	0.13	4575	8.14	504	194	0.35	11039	19.64
405	34	0.06	2180	3.88	455	91	0.16	4666	8.30	505	212	0.38	11251	20.02
406	24	0.04	2204	3.92	456	96	0.17	4762	8.47	506	209	0.37	11460	20.39
407	30	0.05	2234	3.98	457	79	0.14	4841	8.61	507	219	0.39	11679	20.78
408	27	0.05	2261	4.02	458	77	0.14	4918	8.75	508	224	0.40	11903	21.18
409	37	0.07	2298	4.09	459	86	0.15	5004	8.90	509	197	0.35	12100	21.53
410	29	0.05	2327	4.14	460	73	0.13	5077	9.03	510	225	0.40	12325	21.93
411	38	0.07	2365	4.21	461	96	0.17	5173	9.21	511	215	0.38	12540	22.31
412	30	0.05	2395	4.26	462	89	0.16	5262	9.36	512	210	0.37	12750	22.69
413	31	0.06	2426	4.32	463	83	0.15	5345	9.51	513	218	0.39	12968	23.08
414	32	0.06	2458	4.37	464	88	0.16	5433	9.67	514	223	0.40	13191	23.47
415	56	0.10	2514	4.47	465	94	0.17	5527	9.84	515	239	0.43	13430	23.90
416	35	0.06	2549	4.54	466	95	0.17	5622	10.00	516	223	0.40	13653	24.30
417	32	0.06	2581	4.59	467	107	0.19	5729	10.19	517	249	0.44	13902	24.74
418	41	0.07	2622	4.67	468	94	0.17	5823	10.36	518	239	0.43	14141	25.16
419	33	0.06	2655	4.72	469	115	0.20	5938	10.57	519	263	0.47	14404	25.63
420	39	0.07	2694	4.79	470	107	0.19	6045	10.76	520	276	0.49	14680	26.12

**Table 157. Reading 3 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
521	279	0.50	14959	26.62	568	355	0.63	30182	53.71	615	268	0.48	45198	80.43
522	271	0.48	15230	27.10	569	368	0.65	30550	54.36	616	252	0.45	45450	80.88
523	259	0.46	15489	27.56	570	327	0.58	30877	54.95	617	227	0.40	45677	81.28
524	275	0.49	15764	28.05	571	358	0.64	31235	55.58	618	244	0.43	45921	81.72
525	278	0.49	16042	28.55	572	350	0.62	31585	56.21	619	241	0.43	46162	82.14
526	263	0.47	16305	29.01	573	342	0.61	31927	56.81	620	253	0.45	46415	82.59
527	270	0.48	16575	29.49	574	324	0.58	32251	57.39	621	245	0.44	46660	83.03
528	295	0.52	16870	30.02	575	345	0.61	32596	58.00	622	227	0.40	46887	83.43
529	273	0.49	17143	30.51	576	376	0.67	32972	58.67	623	223	0.40	47110	83.83
530	310	0.55	17453	31.06	577	343	0.61	33315	59.28	624	200	0.36	47310	84.19
531	286	0.51	17739	31.57	578	351	0.62	33666	59.91	625	206	0.37	47516	84.55
532	293	0.52	18032	32.09	579	393	0.70	34059	60.61	626	194	0.35	47710	84.90
533	269	0.48	18301	32.57	580	347	0.62	34406	61.22	627	243	0.43	47953	85.33
534	319	0.57	18620	33.13	581	351	0.62	34757	61.85	628	219	0.39	48172	85.72
535	287	0.51	18907	33.64	582	293	0.52	35050	62.37	629	193	0.34	48365	86.06
536	321	0.57	19228	34.22	583	347	0.62	35397	62.99	630	178	0.32	48543	86.38
537	299	0.53	19527	34.75	584	335	0.60	35732	63.58	631	203	0.36	48746	86.74
538	334	0.59	19861	35.34	585	378	0.67	36110	64.26	632	190	0.34	48936	87.08
539	304	0.54	20165	35.88	586	315	0.56	36425	64.82	633	188	0.33	49124	87.42
540	337	0.60	20502	36.48	587	353	0.63	36778	65.45	634	159	0.28	49283	87.70
541	317	0.56	20819	37.05	588	335	0.60	37113	66.04	635	164	0.29	49447	87.99
542	323	0.57	21142	37.62	589	332	0.59	37445	66.63	636	185	0.33	49632	88.32
543	335	0.60	21477	38.22	590	314	0.56	37759	67.19	637	170	0.30	49802	88.62
544	309	0.55	21786	38.77	591	325	0.58	38084	67.77	638	140	0.25	49942	88.87
545	308	0.55	22094	39.32	592	366	0.65	38450	68.42	639	146	0.26	50088	89.13
546	313	0.56	22407	39.87	593	317	0.56	38767	68.99	640	154	0.27	50242	89.40
547	349	0.62	22756	40.49	594	321	0.57	39088	69.56	641	142	0.25	50384	89.66
548	329	0.59	23085	41.08	595	321	0.57	39409	70.13	642	161	0.29	50545	89.94
549	355	0.63	23440	41.71	596	327	0.58	39736	70.71	643	148	0.26	50693	90.21
550	342	0.61	23782	42.32	597	312	0.56	40048	71.26	644	150	0.27	50843	90.47
551	376	0.67	24158	42.99	598	308	0.55	40356	71.81	645	149	0.27	50992	90.74
552	348	0.62	24506	43.61	599	279	0.50	40635	72.31	646	114	0.20	51106	90.94
553	304	0.54	24810	44.15	600	289	0.51	40924	72.82	647	135	0.24	51241	91.18
554	333	0.59	25143	44.74	601	305	0.54	41229	73.37	648	128	0.23	51369	91.41
555	375	0.67	25518	45.41	602	311	0.55	41540	73.92	649	147	0.26	51516	91.67
556	347	0.62	25865	46.03	603	317	0.56	41857	74.48	650	149	0.27	51665	91.94
557	376	0.67	26241	46.70	604	313	0.56	42170	75.04	651	120	0.21	51785	92.15
558	362	0.64	26603	47.34	605	308	0.55	42478	75.59	652	136	0.24	51921	92.39
559	353	0.63	26956	47.97	606	298	0.53	42776	76.12	653	116	0.21	52037	92.60
560	373	0.66	27329	48.63	607	318	0.57	43094	76.69	654	120	0.21	52157	92.81
561	360	0.64	27689	49.27	608	271	0.48	43365	77.17	655	129	0.23	52286	93.04
562	375	0.67	28064	49.94	609	259	0.46	43624	77.63	656	117	0.21	52403	93.25
563	375	0.67	28439	50.61	610	286	0.51	43910	78.14	657	115	0.20	52518	93.46
564	364	0.65	28803	51.25	611	243	0.43	44153	78.57	658	98	0.17	52616	93.63
565	325	0.58	29128	51.83	612	267	0.48	44420	79.04	659	91	0.16	52707	93.79
566	350	0.62	29478	52.46	613	262	0.47	44682	79.51	660	95	0.17	52802	93.96
567	349	0.62	29827	53.08	614	248	0.44	44930	79.95	661	104	0.19	52906	94.15



**Table 157. Reading 3 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
662	89	0.16	52995	94.30	712	20	0.04	55435	98.65	763	10	0.02	55970	99.60
663	105	0.19	53100	94.49	713	8	0.01	55443	98.66	764	3	0.01	55973	99.60
664	79	0.14	53179	94.63	714	13	0.02	55456	98.68	765	6	0.01	55979	99.61
665	89	0.16	53268	94.79	715	11	0.02	55467	98.70	766	11	0.02	55990	99.63
666	79	0.14	53347	94.93	716	29	0.05	55496	98.75	767	23	0.04	56013	99.67
667	76	0.14	53423	95.07	717	19	0.03	55515	98.79	770	1	0.00	56014	99.68
668	66	0.12	53489	95.18	718	19	0.03	55534	98.82	771	1	0.00	56015	99.68
669	61	0.11	53550	95.29	719	20	0.04	55554	98.86	772	1	0.00	56016	99.68
670	105	0.19	53655	95.48	720	7	0.01	55561	98.87	773	2	0.00	56018	99.68
671	72	0.13	53727	95.61	721	13	0.02	55574	98.89	774	8	0.01	56026	99.70
672	60	0.11	53787	95.71	722	21	0.04	55595	98.93	775	8	0.01	56034	99.71
673	80	0.14	53867	95.86	723	16	0.03	55611	98.96	779	2	0.00	56036	99.72
674	70	0.12	53937	95.98	724	31	0.06	55642	99.01	781	1	0.00	56037	99.72
675	48	0.09	53985	96.07	725	10	0.02	55652	99.03	782	2	0.00	56039	99.72
676	69	0.12	54054	96.19	726	16	0.03	55668	99.06	784	2	0.00	56041	99.72
677	42	0.07	54096	96.26	727	9	0.02	55677	99.08	785	2	0.00	56043	99.73
678	73	0.13	54169	96.39	728	11	0.02	55688	99.10	786	3	0.01	56046	99.73
679	56	0.10	54225	96.49	729	12	0.02	55700	99.12	789	6	0.01	56052	99.74
680	44	0.08	54269	96.57	730	17	0.03	55717	99.15	792	7	0.01	56059	99.76
681	69	0.12	54338	96.69	731	20	0.04	55737	99.18	794	1	0.00	56060	99.76
682	52	0.09	54390	96.79	732	22	0.04	55759	99.22	795	136	0.24	56196	100.00
683	55	0.10	54445	96.88	733	6	0.01	55765	99.23					
684	54	0.10	54499	96.98	734	5	0.01	55770	99.24					
685	36	0.06	54535	97.04	735	13	0.02	55783	99.27					
686	56	0.10	54591	97.14	736	7	0.01	55790	99.28					
687	38	0.07	54629	97.21	737	12	0.02	55802	99.30					
688	35	0.06	54664	97.27	738	9	0.02	55811	99.31					
689	34	0.06	54698	97.33	739	1	0.00	55812	99.32					
690	37	0.07	54735	97.40	740	7	0.01	55819	99.33					
691	39	0.07	54774	97.47	741	6	0.01	55825	99.34					
692	50	0.09	54824	97.56	742	8	0.01	55833	99.35					
693	33	0.06	54857	97.62	743	5	0.01	55838	99.36					
694	32	0.06	54889	97.67	744	12	0.02	55850	99.38					
695	35	0.06	54924	97.74	745	1	0.00	55851	99.39					
696	43	0.08	54967	97.81	746	7	0.01	55858	99.40					
697	48	0.09	55015	97.90	747	6	0.01	55864	99.41					
698	22	0.04	55037	97.94	748	7	0.01	55871	99.42					
699	45	0.08	55082	98.02	749	4	0.01	55875	99.43					
700	17	0.03	55099	98.05	750	1	0.00	55876	99.43					
701	19	0.03	55118	98.08	751	3	0.01	55879	99.44					
702	27	0.05	55145	98.13	752	17	0.03	55896	99.47					
703	30	0.05	55175	98.18	753	37	0.07	55933	99.53					
704	48	0.09	55223	98.27	754	6	0.01	55939	99.54					
705	23	0.04	55246	98.31	755	1	0.00	55940	99.54					
706	30	0.05	55276	98.36	756	6	0.01	55946	99.56					
707	18	0.03	55294	98.39	757	1	0.00	55947	99.56					
708	27	0.05	55321	98.44	758	9	0.02	55956	99.57					
709	37	0.07	55358	98.51	759	2	0.00	55958	99.58					
710	43	0.08	55401	98.59	760	1	0.00	55959	99.58					
711	14	0.02	55415	98.61	761	1	0.00	55960	99.58					

**Table 158. Spanish Reading 3 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	12	0.76	12	0.76	461	3	0.19	136	8.65	511	15	0.95	622	39.57
381	1	0.06	13	0.83	462	8	0.51	144	9.16	512	16	1.02	638	40.59
387	1	0.06	14	0.89	463	2	0.13	146	9.29	513	10	0.64	648	41.22
391	1	0.06	15	0.95	464	8	0.51	154	9.80	514	16	1.02	664	42.24
392	1	0.06	16	1.02	465	9	0.57	163	10.37	515	26	1.65	690	43.89
397	2	0.13	18	1.15	466	7	0.45	170	10.81	516	13	0.83	703	44.72
400	1	0.06	19	1.21	467	6	0.38	176	11.20	517	13	0.83	716	45.55
401	3	0.19	22	1.40	468	5	0.32	181	11.51	518	20	1.27	736	46.82
404	1	0.06	23	1.46	469	7	0.45	188	11.96	519	14	0.89	750	47.71
406	1	0.06	24	1.53	470	8	0.51	196	12.47	520	16	1.02	766	48.73
407	1	0.06	25	1.59	471	9	0.57	205	13.04	521	15	0.95	781	49.68
409	3	0.19	28	1.78	472	9	0.57	214	13.61	522	13	0.83	794	50.51
411	1	0.06	29	1.84	473	8	0.51	222	14.12	523	14	0.89	808	51.40
415	1	0.06	30	1.91	474	8	0.51	230	14.63	524	13	0.83	821	52.23
416	1	0.06	31	1.97	475	8	0.51	238	15.14	525	18	1.15	839	53.37
417	2	0.13	33	2.10	476	4	0.25	242	15.39	526	12	0.76	851	54.13
422	3	0.19	36	2.29	477	8	0.51	250	15.90	527	19	1.21	870	55.34
423	2	0.13	38	2.42	478	13	0.83	263	16.73	528	18	1.15	888	56.49
425	2	0.13	40	2.54	479	1	0.06	264	16.79	529	16	1.02	904	57.51
427	2	0.13	42	2.67	480	13	0.83	277	17.62	530	19	1.21	923	58.72
428	1	0.06	43	2.74	481	10	0.64	287	18.26	531	18	1.15	941	59.86
429	2	0.13	45	2.86	482	14	0.89	301	19.15	532	18	1.15	959	61.01
430	1	0.06	46	2.93	483	8	0.51	309	19.66	533	14	0.89	973	61.90
431	1	0.06	47	2.99	484	3	0.19	312	19.85	534	16	1.02	989	62.91
433	3	0.19	50	3.18	485	14	0.89	326	20.74	535	14	0.89	1003	63.80
434	1	0.06	51	3.24	486	9	0.57	335	21.31	536	10	0.64	1013	64.44
437	3	0.19	54	3.44	487	8	0.51	343	21.82	537	14	0.89	1027	65.33
438	3	0.19	57	3.63	488	12	0.76	355	22.58	538	13	0.83	1040	66.16
439	1	0.06	58	3.69	489	6	0.38	361	22.96	539	11	0.70	1051	66.86
440	2	0.13	60	3.82	490	9	0.57	370	23.54	540	16	1.02	1067	67.88
441	1	0.06	61	3.88	491	7	0.45	377	23.98	541	8	0.51	1075	68.38
442	3	0.19	64	4.07	492	6	0.38	383	24.36	542	18	1.15	1093	69.53
443	2	0.13	66	4.20	493	7	0.45	390	24.81	543	15	0.95	1108	70.48
444	3	0.19	69	4.39	494	13	0.83	403	25.64	544	19	1.21	1127	71.69
445	2	0.13	71	4.52	495	15	0.95	418	26.59	545	18	1.15	1145	72.84
446	2	0.13	73	4.64	496	12	0.76	430	27.35	546	11	0.70	1156	73.54
447	2	0.13	75	4.77	497	17	1.08	447	28.44	547	8	0.51	1164	74.05
448	5	0.32	80	5.09	498	15	0.95	462	29.39	548	16	1.02	1180	75.06
449	7	0.45	87	5.53	499	16	1.02	478	30.41	549	17	1.08	1197	76.15
450	2	0.13	89	5.66	500	8	0.51	486	30.92	550	11	0.70	1208	76.84
451	3	0.19	92	5.85	501	9	0.57	495	31.49	551	16	1.02	1224	77.86
452	5	0.32	97	6.17	502	9	0.57	504	32.06	552	9	0.57	1233	78.44
453	3	0.19	100	6.36	503	9	0.57	513	32.63	553	13	0.83	1246	79.26
454	4	0.25	104	6.62	504	13	0.83	526	33.46	554	24	1.53	1270	80.79
455	2	0.13	106	6.74	505	8	0.51	534	33.97	555	11	0.70	1281	81.49
456	7	0.45	113	7.19	506	13	0.83	547	34.80	556	7	0.45	1288	81.93
457	6	0.38	119	7.57	507	15	0.95	562	35.75	557	11	0.70	1299	82.63
458	5	0.32	124	7.89	508	19	1.21	581	36.96	558	14	0.89	1313	83.52
459	4	0.25	128	8.14	509	16	1.02	597	37.98	559	5	0.32	1318	83.84
460	5	0.32	133	8.46	510	10	0.64	607	38.61	560	7	0.45	1325	84.29

**Table 158. Spanish Reading 3 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
561	10	0.64	1335	84.92	619	2	0.13	1561	99.30
562	7	0.45	1342	85.37	620	1	0.06	1562	99.36
563	5	0.32	1347	85.69	621	1	0.06	1563	99.43
564	8	0.51	1355	86.20	624	1	0.06	1564	99.49
565	10	0.64	1365	86.83	627	3	0.19	1567	99.68
566	9	0.57	1374	87.40	629	1	0.06	1568	99.75
567	11	0.70	1385	88.10	631	1	0.06	1569	99.81
568	6	0.38	1391	88.49	649	1	0.06	1570	99.87
569	7	0.45	1398	88.93	654	1	0.06	1571	99.94
570	8	0.51	1406	89.44	669	1	0.06	1572	100.00
571	12	0.76	1418	90.20					
572	4	0.25	1422	90.46					
573	3	0.19	1425	90.65					
574	8	0.51	1433	91.16					
575	2	0.13	1435	91.28					
576	6	0.38	1441	91.67					
577	8	0.51	1449	92.18					
578	5	0.32	1454	92.49					
579	5	0.32	1459	92.81					
580	4	0.25	1463	93.07					
581	7	0.45	1470	93.51					
582	4	0.25	1474	93.77					
584	4	0.25	1478	94.02					
585	6	0.38	1484	94.40					
586	4	0.25	1488	94.66					
587	3	0.19	1491	94.85					
588	3	0.19	1494	95.04					
589	5	0.32	1499	95.36					
590	6	0.38	1505	95.74					
591	4	0.25	1509	95.99					
592	4	0.25	1513	96.25					
593	3	0.19	1516	96.44					
594	2	0.13	1518	96.56					
595	4	0.25	1522	96.82					
596	4	0.25	1526	97.07					
597	2	0.13	1528	97.20					
598	2	0.13	1530	97.33					
600	2	0.13	1532	97.46					
601	2	0.13	1534	97.58					
603	3	0.19	1537	97.77					
604	3	0.19	1540	97.96					
605	2	0.13	1542	98.09					
606	2	0.13	1544	98.22					
607	3	0.19	1547	98.41					
609	2	0.13	1549	98.54					
610	1	0.06	1550	98.60					
613	3	0.19	1553	98.79					
615	1	0.06	1554	98.85					
616	3	0.19	1557	99.05					
618	2	0.13	1559	99.17					

**Table 159. Writing 3 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
150	117	0.21	117	0.21	303	4	0.01	235	0.42	353	11	0.02	756	1.34
230	2	0.00	119	0.21	304	2	0.00	237	0.42	354	22	0.04	778	1.38
235	1	0.00	120	0.21	305	2	0.00	239	0.42	355	29	0.05	807	1.43
236	1	0.00	121	0.22	306	5	0.01	244	0.43	356	33	0.06	840	1.49
237	3	0.01	124	0.22	307	3	0.01	247	0.44	357	26	0.05	866	1.54
238	1	0.00	125	0.22	308	1	0.00	248	0.44	358	29	0.05	895	1.59
239	3	0.01	128	0.23	309	3	0.01	251	0.45	359	25	0.04	920	1.64
240	1	0.00	129	0.23	310	2	0.00	253	0.45	360	35	0.06	955	1.70
241	1	0.00	130	0.23	311	6	0.01	259	0.46	361	32	0.06	987	1.75
242	1	0.00	131	0.23	312	6	0.01	265	0.47	362	34	0.06	1021	1.81
244	1	0.00	132	0.23	313	2	0.00	267	0.47	363	45	0.08	1066	1.89
246	1	0.00	133	0.24	314	1	0.00	268	0.48	364	30	0.05	1096	1.95
247	3	0.01	136	0.24	315	9	0.02	277	0.49	365	37	0.07	1133	2.01
253	2	0.00	138	0.25	316	4	0.01	281	0.50	366	43	0.08	1176	2.09
254	3	0.01	141	0.25	317	5	0.01	286	0.51	367	41	0.07	1217	2.16
255	2	0.00	143	0.25	318	8	0.01	294	0.52	368	49	0.09	1266	2.25
256	2	0.00	145	0.26	319	5	0.01	299	0.53	369	64	0.11	1330	2.36
257	1	0.00	146	0.26	320	3	0.01	302	0.54	370	50	0.09	1380	2.45
258	1	0.00	147	0.26	321	1	0.00	303	0.54	371	47	0.08	1427	2.54
263	1	0.00	148	0.26	322	4	0.01	307	0.55	372	54	0.10	1481	2.63
264	2	0.00	150	0.27	323	8	0.01	315	0.56	373	66	0.12	1547	2.75
267	2	0.00	152	0.27	324	13	0.02	328	0.58	374	62	0.11	1609	2.86
268	1	0.00	153	0.27	325	4	0.01	332	0.59	375	63	0.11	1672	2.97
271	2	0.00	155	0.28	326	8	0.01	340	0.60	376	68	0.12	1740	3.09
273	1	0.00	156	0.28	327	7	0.01	347	0.62	377	66	0.12	1806	3.21
274	1	0.00	157	0.28	328	9	0.02	356	0.63	378	82	0.15	1888	3.36
276	2	0.00	159	0.28	329	9	0.02	365	0.65	379	91	0.16	1979	3.52
278	3	0.01	162	0.29	330	12	0.02	377	0.67	380	84	0.15	2063	3.67
279	2	0.00	164	0.29	331	11	0.02	388	0.69	381	75	0.13	2138	3.80
280	1	0.00	165	0.29	332	7	0.01	395	0.70	382	73	0.13	2211	3.93
281	3	0.01	168	0.30	333	14	0.02	409	0.73	383	80	0.14	2291	4.07
282	1	0.00	169	0.30	334	18	0.03	427	0.76	384	97	0.17	2388	4.24
283	1	0.00	170	0.30	335	12	0.02	439	0.78	385	87	0.15	2475	4.40
286	2	0.00	172	0.31	336	17	0.03	456	0.81	386	74	0.13	2549	4.53
287	3	0.01	175	0.31	337	9	0.02	465	0.83	387	97	0.17	2646	4.70
288	4	0.01	179	0.32	338	13	0.02	478	0.85	388	106	0.19	2752	4.89
289	1	0.00	180	0.32	339	16	0.03	494	0.88	389	97	0.17	2849	5.06
290	6	0.01	186	0.33	340	8	0.01	502	0.89	390	101	0.18	2950	5.24
291	4	0.01	190	0.34	341	18	0.03	520	0.92	391	105	0.19	3055	5.43
292	2	0.00	192	0.34	342	16	0.03	536	0.95	392	100	0.18	3155	5.61
293	4	0.01	196	0.35	343	21	0.04	557	0.99	393	135	0.24	3290	5.85
294	4	0.01	200	0.36	344	17	0.03	574	1.02	394	143	0.25	3433	6.10
295	5	0.01	205	0.36	345	16	0.03	590	1.05	395	143	0.25	3576	6.36
296	5	0.01	210	0.37	346	18	0.03	608	1.08	396	107	0.19	3683	6.55
297	3	0.01	213	0.38	347	21	0.04	629	1.12	397	126	0.22	3809	6.77
298	4	0.01	217	0.39	348	24	0.04	653	1.16	398	142	0.25	3951	7.02
299	3	0.01	220	0.39	349	16	0.03	669	1.19	399	133	0.24	4084	7.26
300	2	0.00	222	0.39	350	20	0.04	689	1.22	400	139	0.25	4223	7.51
301	6	0.01	228	0.41	351	34	0.06	723	1.29	401	142	0.25	4365	7.76
302	3	0.01	231	0.41	352	22	0.04	745	1.32	402	139	0.25	4504	8.01

**Table 159. Writing 3 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
403	182	0.32	4686	8.33	453	464	0.82	20582	36.59	503	347	0.62	43083	76.58
404	186	0.33	4872	8.66	454	427	0.76	21009	37.34	504	354	0.63	43437	77.21
405	162	0.29	5034	8.95	455	445	0.79	21454	38.14	505	379	0.67	43816	77.88
406	162	0.29	5196	9.24	456	441	0.78	21895	38.92	506	356	0.63	44172	78.52
407	189	0.34	5385	9.57	457	451	0.80	22346	39.72	507	330	0.59	44502	79.10
408	192	0.34	5577	9.91	458	457	0.81	22803	40.53	508	375	0.67	44877	79.77
409	232	0.41	5809	10.33	459	458	0.81	23261	41.35	509	373	0.66	45250	80.43
410	193	0.34	6002	10.67	460	463	0.82	23724	42.17	510	339	0.60	45589	81.04
411	212	0.38	6214	11.05	461	483	0.86	24207	43.03	511	303	0.54	45892	81.57
412	191	0.34	6405	11.39	462	492	0.87	24699	43.90	512	299	0.53	46191	82.11
413	200	0.36	6605	11.74	463	463	0.82	25162	44.73	513	301	0.54	46492	82.64
414	204	0.36	6809	12.10	464	444	0.79	25606	45.52	514	307	0.55	46799	83.19
415	259	0.46	7068	12.56	465	475	0.84	26081	46.36	515	330	0.59	47129	83.77
416	244	0.43	7312	13.00	466	495	0.88	26576	47.24	516	320	0.57	47449	84.34
417	248	0.44	7560	13.44	467	445	0.79	27021	48.03	517	338	0.60	47787	84.94
418	246	0.44	7806	13.88	468	495	0.88	27516	48.91	518	272	0.48	48059	85.43
419	241	0.43	8047	14.30	469	508	0.90	28024	49.81	519	237	0.42	48296	85.85
420	247	0.44	8294	14.74	470	553	0.98	28577	50.80	520	280	0.50	48576	86.35
421	259	0.46	8553	15.20	471	497	0.88	29074	51.68	521	247	0.44	48823	86.78
422	295	0.52	8848	15.73	472	469	0.83	29543	52.51	522	189	0.34	49012	87.12
423	290	0.52	9138	16.24	473	450	0.80	29993	53.31	523	218	0.39	49230	87.51
424	311	0.55	9449	16.80	474	482	0.86	30475	54.17	524	214	0.38	49444	87.89
425	267	0.47	9716	17.27	475	469	0.83	30944	55.00	525	279	0.50	49723	88.38
426	304	0.54	10020	17.81	476	499	0.89	31443	55.89	526	303	0.54	50026	88.92
427	317	0.56	10337	18.37	477	484	0.86	31927	56.75	527	214	0.38	50240	89.30
428	315	0.56	10652	18.93	478	470	0.84	32397	57.59	528	345	0.61	50585	89.92
429	306	0.54	10958	19.48	479	492	0.87	32889	58.46	529	195	0.35	50780	90.26
430	318	0.57	11276	20.04	480	479	0.85	33368	59.31	530	245	0.44	51025	90.70
431	331	0.59	11607	20.63	481	438	0.78	33806	60.09	531	184	0.33	51209	91.03
432	336	0.60	11943	21.23	482	491	0.87	34297	60.96	532	117	0.21	51326	91.23
433	332	0.59	12275	21.82	483	457	0.81	34754	61.78	533	200	0.36	51526	91.59
434	361	0.64	12636	22.46	484	446	0.79	35200	62.57	534	88	0.16	51614	91.75
435	351	0.62	12987	23.08	485	454	0.81	35654	63.38	535	161	0.29	51775	92.03
436	391	0.70	13378	23.78	486	431	0.77	36085	64.14	536	91	0.16	51866	92.19
437	372	0.66	13750	24.44	487	415	0.74	36500	64.88	537	274	0.49	52140	92.68
438	388	0.69	14138	25.13	488	444	0.79	36944	65.67	538	101	0.18	52241	92.86
439	412	0.73	14550	25.86	489	461	0.82	37405	66.49	539	409	0.73	52650	93.59
440	396	0.70	14946	26.57	490	440	0.78	37845	67.27	540	205	0.36	52855	93.95
441	380	0.68	15326	27.24	491	427	0.76	38272	68.03	541	233	0.41	53088	94.37
442	373	0.66	15699	27.91	492	397	0.71	38669	68.74	542	81	0.14	53169	94.51
443	396	0.70	16095	28.61	493	445	0.79	39114	69.53	543	248	0.44	53417	94.95
444	444	0.79	16539	29.40	494	450	0.80	39564	70.33	544	65	0.12	53482	95.07
445	422	0.75	16961	30.15	495	417	0.74	39981	71.07	545	93	0.17	53575	95.23
446	455	0.81	17416	30.96	496	428	0.76	40409	71.83	546	53	0.09	53628	95.33
447	477	0.85	17893	31.81	497	408	0.73	40817	72.55	547	57	0.10	53685	95.43
448	430	0.76	18323	32.57	498	387	0.69	41204	73.24	548	35	0.06	53720	95.49
449	421	0.75	18744	33.32	499	432	0.77	41636	74.01	549	98	0.17	53818	95.66
450	425	0.76	19169	34.07	500	351	0.62	41987	74.63	550	48	0.09	53866	95.75
451	485	0.86	19654	34.94	501	363	0.65	42350	75.28	551	48	0.09	53914	95.83
452	464	0.82	20118	35.76	502	386	0.69	42736	75.96	552	50	0.09	53964	95.92

**Table 159. Writing 3 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
553	618	1.10	54582	97.02	609	11	0.02	56133	99.78
554	61	0.11	54643	97.13	610	20	0.04	56153	99.81
555	29	0.05	54672	97.18	612	3	0.01	56156	99.82
556	83	0.15	54755	97.33	614	10	0.02	56166	99.84
557	89	0.16	54844	97.49	617	8	0.01	56174	99.85
558	91	0.16	54935	97.65	618	2	0.00	56176	99.85
559	24	0.04	54959	97.69	619	3	0.01	56179	99.86
560	109	0.19	55068	97.88	620	1	0.00	56180	99.86
561	36	0.06	55104	97.95	621	8	0.01	56188	99.88
562	29	0.05	55133	98.00	624	6	0.01	56194	99.89
563	52	0.09	55185	98.09	625	2	0.00	56196	99.89
564	21	0.04	55206	98.13	627	5	0.01	56201	99.90
565	25	0.04	55231	98.17	653	3	0.01	56204	99.90
566	21	0.04	55252	98.21	680	54	0.10	56258	100.00
567	36	0.06	55288	98.28					
568	17	0.03	55305	98.31					
569	12	0.02	55317	98.33					
570	29	0.05	55346	98.38					
571	5	0.01	55351	98.39					
572	156	0.28	55507	98.67					
573	8	0.01	55515	98.68					
574	15	0.03	55530	98.71					
575	26	0.05	55556	98.75					
576	124	0.22	55680	98.97					
577	13	0.02	55693	99.00					
578	75	0.13	55768	99.13					
579	3	0.01	55771	99.13					
580	23	0.04	55794	99.18					
581	24	0.04	55818	99.22					
582	5	0.01	55823	99.23					
583	19	0.03	55842	99.26					
584	22	0.04	55864	99.30					
585	7	0.01	55871	99.31					
586	16	0.03	55887	99.34					
587	11	0.02	55898	99.36					
588	13	0.02	55911	99.38					
589	7	0.01	55918	99.40					
590	7	0.01	55925	99.41					
591	8	0.01	55933	99.42					
592	10	0.02	55943	99.44					
593	1	0.00	55944	99.44					
594	3	0.01	55947	99.45					
595	5	0.01	55952	99.46					
596	5	0.01	55957	99.46					
600	108	0.19	56065	99.66					
601	2	0.00	56067	99.66					
604	44	0.08	56111	99.74					
605	2	0.00	56113	99.74					
607	1	0.00	56114	99.74					
608	8	0.01	56122	99.76					

**Table 160. Spanish Writing 3 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
250	3	0.19	3	0.19	396	1	0.06	81	5.13	448	5	0.32	294	18.63
259	1	0.06	4	0.25	397	1	0.06	82	5.20	449	8	0.51	302	19.14
267	1	0.06	5	0.32	398	1	0.06	83	5.26	450	7	0.44	309	19.58
291	1	0.06	6	0.38	399	3	0.19	86	5.45	451	6	0.38	315	19.96
292	1	0.06	7	0.44	400	4	0.25	90	5.70	452	8	0.51	323	20.47
293	1	0.06	8	0.51	401	2	0.13	92	5.83	453	11	0.70	334	21.17
304	1	0.06	9	0.57	404	4	0.25	96	6.08	454	7	0.44	341	21.61
310	1	0.06	10	0.63	405	2	0.13	98	6.21	455	7	0.44	348	22.05
324	1	0.06	11	0.70	406	1	0.06	99	6.27	456	7	0.44	355	22.50
329	1	0.06	12	0.76	407	5	0.32	104	6.59	457	6	0.38	361	22.88
330	1	0.06	13	0.82	408	3	0.19	107	6.78	458	9	0.57	370	23.45
332	1	0.06	14	0.89	409	2	0.13	109	6.91	459	5	0.32	375	23.76
334	1	0.06	15	0.95	410	2	0.13	111	7.03	460	9	0.57	384	24.33
335	2	0.13	17	1.08	411	1	0.06	112	7.10	461	5	0.32	389	24.65
338	1	0.06	18	1.14	412	4	0.25	116	7.35	462	10	0.63	399	25.29
341	1	0.06	19	1.20	413	1	0.06	117	7.41	463	5	0.32	404	25.60
342	1	0.06	20	1.27	414	4	0.25	121	7.67	464	9	0.57	413	26.17
347	1	0.06	21	1.33	415	4	0.25	125	7.92	465	7	0.44	420	26.62
349	1	0.06	22	1.39	416	1	0.06	126	7.98	466	9	0.57	429	27.19
351	1	0.06	23	1.46	417	2	0.13	128	8.11	467	11	0.70	440	27.88
352	2	0.13	25	1.58	418	5	0.32	133	8.43	468	9	0.57	449	28.45
353	1	0.06	26	1.65	419	1	0.06	134	8.49	469	12	0.76	461	29.21
354	1	0.06	27	1.71	420	6	0.38	140	8.87	470	10	0.63	471	29.85
355	3	0.19	30	1.90	421	4	0.25	144	9.13	471	14	0.89	485	30.74
356	2	0.13	32	2.03	422	3	0.19	147	9.32	472	8	0.51	493	31.24
358	1	0.06	33	2.09	423	8	0.51	155	9.82	473	10	0.63	503	31.88
360	2	0.13	35	2.22	424	2	0.13	157	9.95	474	7	0.44	510	32.32
362	2	0.13	37	2.34	425	6	0.38	163	10.33	475	8	0.51	518	32.83
363	2	0.13	39	2.47	426	2	0.13	165	10.46	476	9	0.57	527	33.40
366	1	0.06	40	2.53	427	1	0.06	166	10.52	477	10	0.63	537	34.03
367	1	0.06	41	2.60	428	3	0.19	169	10.71	478	6	0.38	543	34.41
368	3	0.19	44	2.79	429	1	0.06	170	10.77	479	6	0.38	549	34.79
369	1	0.06	45	2.85	430	5	0.32	175	11.09	480	4	0.25	553	35.04
370	2	0.13	47	2.98	431	13	0.82	188	11.91	481	9	0.57	562	35.61
372	2	0.13	49	3.11	432	4	0.25	192	12.17	482	15	0.95	577	36.57
373	1	0.06	50	3.17	433	7	0.44	199	12.61	483	8	0.51	585	37.07
374	1	0.06	51	3.23	434	5	0.32	204	12.93	484	9	0.57	594	37.64
376	4	0.25	55	3.49	435	5	0.32	209	13.24	485	14	0.89	608	38.53
377	1	0.06	56	3.55	436	9	0.57	218	13.81	486	12	0.76	620	39.29
381	1	0.06	57	3.61	437	6	0.38	224	14.20	487	14	0.89	634	40.18
384	4	0.25	61	3.87	438	5	0.32	229	14.51	488	7	0.44	641	40.62
385	1	0.06	62	3.93	439	10	0.63	239	15.15	489	9	0.57	650	41.19
386	1	0.06	63	3.99	440	5	0.32	244	15.46	490	5	0.32	655	41.51
387	5	0.32	68	4.31	441	8	0.51	252	15.97	491	5	0.32	660	41.83
388	3	0.19	71	4.50	442	5	0.32	257	16.29	492	10	0.63	670	42.46
389	1	0.06	72	4.56	443	7	0.44	264	16.73	493	10	0.63	680	43.09
390	3	0.19	75	4.75	444	5	0.32	269	17.05	494	8	0.51	688	43.60
391	3	0.19	78	4.94	445	4	0.25	273	17.30	495	10	0.63	698	44.23
393	1	0.06	79	5.01	446	8	0.51	281	17.81	496	7	0.44	705	44.68
394	1	0.06	80	5.07	447	8	0.51	289	18.31	497	9	0.57	714	45.25

**Table 160. Spanish Writing 3 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
498	12	0.76	726	46.01	548	6	0.38	1194	75.67	598	2	0.13	1457	92.33
499	7	0.44	733	46.45	549	8	0.51	1202	76.17	599	1	0.06	1458	92.40
500	8	0.51	741	46.96	550	4	0.25	1206	76.43	600	2	0.13	1460	92.52
501	10	0.63	751	47.59	551	6	0.38	1212	76.81	601	4	0.25	1464	92.78
502	7	0.44	758	48.04	552	9	0.57	1221	77.38	602	1	0.06	1465	92.84
503	10	0.63	768	48.67	553	5	0.32	1226	77.69	603	7	0.44	1472	93.28
504	10	0.63	778	49.30	554	7	0.44	1233	78.14	604	5	0.32	1477	93.60
505	10	0.63	788	49.94	555	7	0.44	1240	78.58	605	2	0.13	1479	93.73
506	13	0.82	801	50.76	556	8	0.51	1248	79.09	606	3	0.19	1482	93.92
507	10	0.63	811	51.39	557	8	0.51	1256	79.59	607	1	0.06	1483	93.98
508	4	0.25	815	51.65	558	4	0.25	1260	79.85	608	2	0.13	1485	94.11
509	9	0.57	824	52.22	559	3	0.19	1263	80.04	609	5	0.32	1490	94.42
510	8	0.51	832	52.72	560	11	0.70	1274	80.74	610	2	0.13	1492	94.55
511	9	0.57	841	53.30	561	7	0.44	1281	81.18	611	2	0.13	1494	94.68
512	12	0.76	853	54.06	562	6	0.38	1287	81.56	612	2	0.13	1496	94.80
513	7	0.44	860	54.50	563	10	0.63	1297	82.19	613	5	0.32	1501	95.12
514	13	0.82	873	55.32	564	4	0.25	1301	82.45	615	1	0.06	1502	95.18
515	6	0.38	879	55.70	565	3	0.19	1304	82.64	616	3	0.19	1505	95.37
516	8	0.51	887	56.21	566	2	0.13	1306	82.76	617	3	0.19	1508	95.56
517	18	1.14	905	57.35	567	6	0.38	1312	83.14	618	1	0.06	1509	95.63
518	14	0.89	919	58.24	568	5	0.32	1317	83.46	619	1	0.06	1510	95.69
519	11	0.70	930	58.94	569	5	0.32	1322	83.78	620	4	0.25	1514	95.94
520	5	0.32	935	59.25	570	4	0.25	1326	84.03	621	1	0.06	1515	96.01
521	6	0.38	941	59.63	571	6	0.38	1332	84.41	622	3	0.19	1518	96.20
522	6	0.38	947	60.01	572	6	0.38	1338	84.79	623	3	0.19	1521	96.39
523	7	0.44	954	60.46	573	6	0.38	1344	85.17	624	1	0.06	1522	96.45
524	11	0.70	965	61.15	574	5	0.32	1349	85.49	625	1	0.06	1523	96.51
525	11	0.70	976	61.85	575	4	0.25	1353	85.74	626	4	0.25	1527	96.77
526	11	0.70	987	62.55	576	4	0.25	1357	85.99	628	1	0.06	1528	96.83
527	10	0.63	997	63.18	577	3	0.19	1360	86.19	630	2	0.13	1530	96.96
528	7	0.44	1004	63.62	578	7	0.44	1367	86.63	631	1	0.06	1531	97.02
529	6	0.38	1010	64.01	579	6	0.38	1373	87.01	632	1	0.06	1532	97.08
530	9	0.57	1019	64.58	580	6	0.38	1379	87.39	635	1	0.06	1533	97.15
531	9	0.57	1028	65.15	581	9	0.57	1388	87.96	636	3	0.19	1536	97.34
532	9	0.57	1037	65.72	582	6	0.38	1394	88.34	637	5	0.32	1541	97.66
533	13	0.82	1050	66.54	583	4	0.25	1398	88.59	638	1	0.06	1542	97.72
534	6	0.38	1056	66.92	584	2	0.13	1400	88.72	639	5	0.32	1547	98.04
535	13	0.82	1069	67.74	585	6	0.38	1406	89.10	640	1	0.06	1548	98.10
536	7	0.44	1076	68.19	586	7	0.44	1413	89.54	642	1	0.06	1549	98.16
537	10	0.63	1086	68.82	587	5	0.32	1418	89.86	647	1	0.06	1550	98.23
538	19	1.20	1105	70.03	588	2	0.13	1420	89.99	649	1	0.06	1551	98.29
539	8	0.51	1113	70.53	589	4	0.25	1424	90.24	650	1	0.06	1552	98.35
540	11	0.70	1124	71.23	590	6	0.38	1430	90.62	652	2	0.13	1554	98.48
541	5	0.32	1129	71.55	591	4	0.25	1434	90.87	653	1	0.06	1555	98.54
542	9	0.57	1138	72.12	592	3	0.19	1437	91.06	654	1	0.06	1556	98.61
543	10	0.63	1148	72.75	593	3	0.19	1440	91.25	656	2	0.13	1558	98.73
544	10	0.63	1158	73.38	594	2	0.13	1442	91.38	659	3	0.19	1561	98.92
545	12	0.76	1170	74.14	595	4	0.25	1446	91.63	660	1	0.06	1562	98.99
546	4	0.25	1174	74.40	596	7	0.44	1453	92.08	663	1	0.06	1563	99.05
547	14	0.89	1188	75.29	597	2	0.13	1455	92.21	684	1	0.06	1564	99.11



**Table 160. Spanish Writing 3 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %
691	1	0.06	1565	99.18
696	2	0.13	1567	99.30
698	5	0.32	1572	99.62
699	1	0.06	1573	99.68
701	1	0.06	1574	99.75
750	4	0.25	1578	100.00

**Table 161. Mathematics 3 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
150	78	0.13	78	0.13	200	11	0.02	222	0.38	250	15	0.03	652	1.13
151	1	0.00	79	0.14	201	4	0.01	226	0.39	251	12	0.02	664	1.15
152	3	0.01	82	0.14	202	6	0.01	232	0.40	252	21	0.04	685	1.18
153	2	0.00	84	0.15	203	4	0.01	236	0.41	253	13	0.02	698	1.21
154	2	0.00	86	0.15	204	6	0.01	242	0.42	254	12	0.02	710	1.23
155	2	0.00	88	0.15	205	6	0.01	248	0.43	255	17	0.03	727	1.26
156	4	0.01	92	0.16	206	5	0.01	253	0.44	256	26	0.04	753	1.30
157	1	0.00	93	0.16	207	3	0.01	256	0.44	257	10	0.02	763	1.32
158	1	0.00	94	0.16	208	8	0.01	264	0.46	258	21	0.04	784	1.35
159	3	0.01	97	0.17	209	3	0.01	267	0.46	259	19	0.03	803	1.39
160	4	0.01	101	0.17	210	6	0.01	273	0.47	260	18	0.03	821	1.42
161	1	0.00	102	0.18	211	7	0.01	280	0.48	261	17	0.03	838	1.45
162	2	0.00	104	0.18	212	4	0.01	284	0.49	262	18	0.03	856	1.48
163	1	0.00	105	0.18	213	7	0.01	291	0.50	263	23	0.04	879	1.52
164	3	0.01	108	0.19	214	5	0.01	296	0.51	264	20	0.03	899	1.55
165	1	0.00	109	0.19	215	11	0.02	307	0.53	265	19	0.03	918	1.59
166	1	0.00	110	0.19	216	7	0.01	314	0.54	266	14	0.02	932	1.61
167	3	0.01	113	0.20	217	6	0.01	320	0.55	267	23	0.04	955	1.65
168	6	0.01	119	0.21	218	7	0.01	327	0.56	268	16	0.03	971	1.68
169	4	0.01	123	0.21	219	3	0.01	330	0.57	269	33	0.06	1004	1.73
170	2	0.00	125	0.22	220	8	0.01	338	0.58	270	24	0.04	1028	1.78
171	4	0.01	129	0.22	221	9	0.02	347	0.60	271	25	0.04	1053	1.82
172	1	0.00	130	0.22	222	8	0.01	355	0.61	272	24	0.04	1077	1.86
173	2	0.00	132	0.23	223	4	0.01	359	0.62	273	26	0.04	1103	1.90
174	1	0.00	133	0.23	224	4	0.01	363	0.63	274	19	0.03	1122	1.94
175	1	0.00	134	0.23	225	8	0.01	371	0.64	275	25	0.04	1147	1.98
176	2	0.00	136	0.23	226	9	0.02	380	0.66	276	35	0.06	1182	2.04
177	5	0.01	141	0.24	227	4	0.01	384	0.66	277	25	0.04	1207	2.08
178	1	0.00	142	0.25	228	8	0.01	392	0.68	278	30	0.05	1237	2.14
179	1	0.00	143	0.25	229	8	0.01	400	0.69	279	23	0.04	1260	2.18
180	2	0.00	145	0.25	230	13	0.02	413	0.71	280	33	0.06	1293	2.23
181	3	0.01	148	0.26	231	11	0.02	424	0.73	281	21	0.04	1314	2.27
182	4	0.01	152	0.26	232	5	0.01	429	0.74	282	26	0.04	1340	2.31
183	4	0.01	156	0.27	233	4	0.01	433	0.75	283	25	0.04	1365	2.36
184	5	0.01	161	0.28	234	7	0.01	440	0.76	284	32	0.06	1397	2.41
185	2	0.00	163	0.28	235	8	0.01	448	0.77	285	35	0.06	1432	2.47
186	1	0.00	164	0.28	236	8	0.01	456	0.79	286	32	0.06	1464	2.53
187	2	0.00	166	0.29	237	8	0.01	464	0.80	287	42	0.07	1506	2.60
188	2	0.00	168	0.29	238	6	0.01	470	0.81	288	27	0.05	1533	2.65
189	6	0.01	174	0.30	239	15	0.03	485	0.84	289	41	0.07	1574	2.72
190	2	0.00	176	0.30	240	14	0.02	499	0.86	290	37	0.06	1611	2.78
191	4	0.01	180	0.31	241	12	0.02	511	0.88	291	43	0.07	1654	2.86
192	2	0.00	182	0.31	242	14	0.02	525	0.91	292	34	0.06	1688	2.91
193	5	0.01	187	0.32	243	14	0.02	539	0.93	293	30	0.05	1718	2.97
194	3	0.01	190	0.33	244	23	0.04	562	0.97	294	44	0.08	1762	3.04
195	2	0.00	192	0.33	245	6	0.01	568	0.98	295	45	0.08	1807	3.12
196	4	0.01	196	0.34	246	16	0.03	584	1.01	296	42	0.07	1849	3.19
197	5	0.01	201	0.35	247	16	0.03	600	1.04	297	43	0.07	1892	3.27
198	6	0.01	207	0.36	248	18	0.03	618	1.07	298	47	0.08	1939	3.35
199	4	0.01	211	0.36	249	19	0.03	637	1.10	299	43	0.07	1982	3.42

**Table 161. Mathematics 3 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	49	0.08	2031	3.51	350	130	0.22	5964	10.30	400	215	0.37	14067	24.29
301	41	0.07	2072	3.58	351	133	0.23	6097	10.53	401	205	0.35	14272	24.64
302	49	0.08	2121	3.66	352	111	0.19	6208	10.72	402	218	0.38	14490	25.02
303	48	0.08	2169	3.75	353	125	0.22	6333	10.94	403	235	0.41	14725	25.43
304	56	0.10	2225	3.84	354	115	0.20	6448	11.13	404	215	0.37	14940	25.80
305	46	0.08	2271	3.92	355	114	0.20	6562	11.33	405	221	0.38	15161	26.18
306	47	0.08	2318	4.00	356	109	0.19	6671	11.52	406	219	0.38	15380	26.56
307	59	0.10	2377	4.10	357	144	0.25	6815	11.77	407	220	0.38	15600	26.94
308	51	0.09	2428	4.19	358	142	0.25	6957	12.01	408	230	0.40	15830	27.33
309	62	0.11	2490	4.30	359	143	0.25	7100	12.26	409	246	0.42	16076	27.76
310	53	0.09	2543	4.39	360	128	0.22	7228	12.48	410	229	0.40	16305	28.15
311	51	0.09	2594	4.48	361	138	0.24	7366	12.72	411	243	0.42	16548	28.57
312	53	0.09	2647	4.57	362	127	0.22	7493	12.94	412	222	0.38	16770	28.96
313	66	0.11	2713	4.68	363	126	0.22	7619	13.16	413	225	0.39	16995	29.35
314	59	0.10	2772	4.79	364	129	0.22	7748	13.38	414	252	0.44	17247	29.78
315	64	0.11	2836	4.90	365	148	0.26	7896	13.63	415	247	0.43	17494	30.21
316	80	0.14	2916	5.04	366	156	0.27	8052	13.90	416	256	0.44	17750	30.65
317	53	0.09	2969	5.13	367	131	0.23	8183	14.13	417	254	0.44	18004	31.09
318	60	0.10	3029	5.23	368	150	0.26	8333	14.39	418	243	0.42	18247	31.51
319	63	0.11	3092	5.34	369	132	0.23	8465	14.62	419	274	0.47	18521	31.98
320	68	0.12	3160	5.46	370	147	0.25	8612	14.87	420	240	0.41	18761	32.39
321	60	0.10	3220	5.56	371	145	0.25	8757	15.12	421	254	0.44	19015	32.83
322	72	0.12	3292	5.68	372	161	0.28	8918	15.40	422	243	0.42	19258	33.25
323	83	0.14	3375	5.83	373	164	0.28	9082	15.68	423	258	0.45	19516	33.70
324	67	0.12	3442	5.94	374	138	0.24	9220	15.92	424	243	0.42	19759	34.12
325	70	0.12	3512	6.06	375	173	0.30	9393	16.22	425	272	0.47	20031	34.59
326	87	0.15	3599	6.21	376	151	0.26	9544	16.48	426	300	0.52	20331	35.11
327	93	0.16	3692	6.37	377	173	0.30	9717	16.78	427	251	0.43	20582	35.54
328	69	0.12	3761	6.49	378	175	0.30	9892	17.08	428	258	0.45	20840	35.98
329	79	0.14	3840	6.63	379	153	0.26	10045	17.34	429	278	0.48	21118	36.46
330	86	0.15	3926	6.78	380	158	0.27	10203	17.62	430	263	0.45	21381	36.92
331	87	0.15	4013	6.93	381	179	0.31	10382	17.93	431	261	0.45	21642	37.37
332	91	0.16	4104	7.09	382	179	0.31	10561	18.24	432	271	0.47	21913	37.84
333	95	0.16	4199	7.25	383	192	0.33	10753	18.57	433	255	0.44	22168	38.28
334	96	0.17	4295	7.42	384	173	0.30	10926	18.87	434	281	0.49	22449	38.76
335	92	0.16	4387	7.58	385	176	0.30	11102	19.17	435	279	0.48	22728	39.24
336	85	0.15	4472	7.72	386	179	0.31	11281	19.48	436	245	0.42	22973	39.67
337	96	0.17	4568	7.89	387	179	0.31	11460	19.79	437	278	0.48	23251	40.15
338	88	0.15	4656	8.04	388	191	0.33	11651	20.12	438	280	0.48	23531	40.63
339	97	0.17	4753	8.21	389	218	0.38	11869	20.49	439	249	0.43	23780	41.06
340	118	0.20	4871	8.41	390	191	0.33	12060	20.82	440	283	0.49	24063	41.55
341	113	0.20	4984	8.61	391	210	0.36	12270	21.19	441	294	0.51	24357	42.06
342	114	0.20	5098	8.80	392	173	0.30	12443	21.49	442	318	0.55	24675	42.61
343	106	0.18	5204	8.99	393	183	0.32	12626	21.80	443	281	0.49	24956	43.09
344	114	0.20	5318	9.18	394	205	0.35	12831	22.16	444	290	0.50	25246	43.59
345	105	0.18	5423	9.36	395	212	0.37	13043	22.52	445	246	0.42	25492	44.02
346	105	0.18	5528	9.55	396	213	0.37	13256	22.89	446	273	0.47	25765	44.49
347	104	0.18	5632	9.72	397	191	0.33	13447	23.22	447	289	0.50	26054	44.99
348	115	0.20	5747	9.92	398	199	0.34	13646	23.56	448	303	0.52	26357	45.51
349	87	0.15	5834	10.07	399	206	0.36	13852	23.92	449	276	0.48	26633	45.99

**Table 161. Mathematics 3 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
450	272	0.47	26905	46.46	497	237	0.41	40249	69.50	544	165	0.28	49923	86.20
451	297	0.51	27202	46.97	498	254	0.44	40503	69.94	545	159	0.27	50082	86.48
452	289	0.50	27491	47.47	499	245	0.42	40748	70.36	546	128	0.22	50210	86.70
453	314	0.54	27805	48.01	500	244	0.42	40992	70.78	547	169	0.29	50379	86.99
454	274	0.47	28079	48.48	501	265	0.46	41257	71.24	548	156	0.27	50535	87.26
455	293	0.51	28372	48.99	502	234	0.40	41491	71.64	549	145	0.25	50680	87.51
456	269	0.46	28641	49.45	503	281	0.49	41772	72.13	550	133	0.23	50813	87.74
457	296	0.51	28937	49.97	504	257	0.44	42029	72.57	551	139	0.24	50952	87.98
458	257	0.44	29194	50.41	505	233	0.40	42262	72.97	552	154	0.27	51106	88.24
459	282	0.49	29476	50.90	506	245	0.42	42507	73.40	553	109	0.19	51215	88.43
460	272	0.47	29748	51.37	507	220	0.38	42727	73.78	554	147	0.25	51362	88.69
461	332	0.57	30080	51.94	508	220	0.38	42947	74.16	555	108	0.19	51470	88.87
462	268	0.46	30348	52.40	509	258	0.45	43205	74.60	556	129	0.22	51599	89.10
463	317	0.55	30665	52.95	510	250	0.43	43455	75.03	557	139	0.24	51738	89.34
464	311	0.54	30976	53.49	511	241	0.42	43696	75.45	558	150	0.26	51888	89.59
465	290	0.50	31266	53.99	512	210	0.36	43906	75.81	559	145	0.25	52033	89.85
466	305	0.53	31571	54.51	513	223	0.39	44129	76.20	560	111	0.19	52144	90.04
467	312	0.54	31883	55.05	514	205	0.35	44334	76.55	561	105	0.18	52249	90.22
468	281	0.49	32164	55.54	515	199	0.34	44533	76.90	562	118	0.20	52367	90.42
469	279	0.48	32443	56.02	516	217	0.37	44750	77.27	563	131	0.23	52498	90.65
470	317	0.55	32760	56.57	517	200	0.35	44950	77.62	564	125	0.22	52623	90.86
471	306	0.53	33066	57.10	518	233	0.40	45183	78.02	565	99	0.17	52722	91.03
472	311	0.54	33377	57.63	519	190	0.33	45373	78.35	566	88	0.15	52810	91.19
473	271	0.47	33648	58.10	520	216	0.37	45589	78.72	567	89	0.15	52899	91.34
474	283	0.49	33931	58.59	521	182	0.31	45771	79.03	568	92	0.16	52991	91.50
475	282	0.49	34213	59.08	522	194	0.33	45965	79.37	569	90	0.16	53081	91.65
476	272	0.47	34485	59.55	523	198	0.34	46163	79.71	570	83	0.14	53164	91.80
477	289	0.50	34774	60.04	524	202	0.35	46365	80.06	571	95	0.16	53259	91.96
478	290	0.50	35064	60.54	525	201	0.35	46566	80.41	572	83	0.14	53342	92.11
479	261	0.45	35325	61.00	526	215	0.37	46781	80.78	573	105	0.18	53447	92.29
480	254	0.44	35579	61.43	527	179	0.31	46960	81.09	574	81	0.14	53528	92.43
481	327	0.56	35906	62.00	528	191	0.33	47151	81.42	575	55	0.09	53583	92.52
482	306	0.53	36212	62.53	529	209	0.36	47360	81.78	576	81	0.14	53664	92.66
483	283	0.49	36495	63.02	530	204	0.35	47564	82.13	577	108	0.19	53772	92.85
484	305	0.53	36800	63.54	531	188	0.32	47752	82.45	578	64	0.11	53836	92.96
485	296	0.51	37096	64.05	532	179	0.31	47931	82.76	579	77	0.13	53913	93.09
486	274	0.47	37370	64.53	533	186	0.32	48117	83.08	580	63	0.11	53976	93.20
487	256	0.44	37626	64.97	534	152	0.26	48269	83.35	581	112	0.19	54088	93.39
488	285	0.49	37911	65.46	535	169	0.29	48438	83.64	582	90	0.16	54178	93.55
489	266	0.46	38177	65.92	536	197	0.34	48635	83.98	583	80	0.14	54258	93.69
490	260	0.45	38437	66.37	537	178	0.31	48813	84.29	584	65	0.11	54323	93.80
491	276	0.48	38713	66.85	538	175	0.30	48988	84.59	585	68	0.12	54391	93.92
492	256	0.44	38969	67.29	539	166	0.29	49154	84.87	586	57	0.10	54448	94.02
493	249	0.43	39218	67.72	540	153	0.26	49307	85.14	587	120	0.21	54568	94.22
494	262	0.45	39480	68.17	541	158	0.27	49465	85.41	588	42	0.07	54610	94.29
495	273	0.47	39753	68.64	542	141	0.24	49606	85.65	589	93	0.16	54703	94.46
496	259	0.45	40012	69.09	543	152	0.26	49758	85.92	590	95	0.16	54798	94.62

**Table 161. Mathematics 3 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %
591	72	0.12	54870	94.74
592	129	0.22	54999	94.97
593	30	0.05	55029	95.02
594	20	0.03	55049	95.05
595	75	0.13	55124	95.18
596	23	0.04	55147	95.22
597	39	0.07	55186	95.29
598	52	0.09	55238	95.38
599	44	0.08	55282	95.46
600	12	0.02	55294	95.48
601	26	0.04	55320	95.52
602	50	0.09	55370	95.61
603	89	0.15	55459	95.76
604	4	0.01	55463	95.77
605	32	0.06	55495	95.82
606	21	0.04	55516	95.86
607	33	0.06	55549	95.92
608	2	0.00	55551	95.92
609	7	0.01	55558	95.93
610	78	0.13	55636	96.07
611	1	0.00	55637	96.07
612	55	0.09	55692	96.16
613	26	0.04	55718	96.21
614	37	0.06	55755	96.27
615	14	0.02	55769	96.30
616	278	0.48	56047	96.78
617	18	0.03	56065	96.81
618	17	0.03	56082	96.84
621	100	0.17	56182	97.01
623	44	0.08	56226	97.09
624	12	0.02	56238	97.11
625	10	0.02	56248	97.12
626	4	0.01	56252	97.13
627	84	0.15	56336	97.28
628	6	0.01	56342	97.29
632	89	0.15	56431	97.44
634	2	0.00	56433	97.44
635	154	0.27	56587	97.71
638	63	0.11	56650	97.82
640	9	0.02	56659	97.83
644	9	0.02	56668	97.85
646	187	0.32	56855	98.17
652	65	0.11	56920	98.28
654	21	0.04	56941	98.32
656	27	0.05	56968	98.37
660	14	0.02	56982	98.39
661	220	0.38	57202	98.77
700	712	1.23	57914	100.00

**Table 162. Reading 4 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
180	293	0.52	293	0.52	322	4	0.01	381	0.68	374	11	0.02	619	1.10
231	2	0.00	295	0.52	323	2	0.00	383	0.68	375	3	0.01	622	1.11
233	1	0.00	296	0.53	324	1	0.00	384	0.68	376	6	0.01	628	1.12
243	1	0.00	297	0.53	326	1	0.00	385	0.68	377	10	0.02	638	1.13
250	1	0.00	298	0.53	327	1	0.00	386	0.69	378	3	0.01	641	1.14
252	1	0.00	299	0.53	328	2	0.00	388	0.69	379	9	0.02	650	1.16
261	3	0.01	302	0.54	329	4	0.01	392	0.70	380	10	0.02	660	1.17
264	1	0.00	303	0.54	330	5	0.01	397	0.71	381	9	0.02	669	1.19
265	1	0.00	304	0.54	331	2	0.00	399	0.71	382	11	0.02	680	1.21
270	1	0.00	305	0.54	332	1	0.00	400	0.71	383	8	0.01	688	1.22
271	1	0.00	306	0.54	333	2	0.00	402	0.71	384	8	0.01	696	1.24
272	1	0.00	307	0.55	334	1	0.00	403	0.72	385	3	0.01	699	1.24
273	1	0.00	308	0.55	335	1	0.00	404	0.72	386	10	0.02	709	1.26
275	1	0.00	309	0.55	336	1	0.00	405	0.72	387	13	0.02	722	1.28
279	1	0.00	310	0.55	337	5	0.01	410	0.73	388	6	0.01	728	1.29
280	2	0.00	312	0.55	339	4	0.01	414	0.74	389	9	0.02	737	1.31
281	1	0.00	313	0.56	340	8	0.01	422	0.75	390	12	0.02	749	1.33
282	1	0.00	314	0.56	341	5	0.01	427	0.76	391	9	0.02	758	1.35
283	1	0.00	315	0.56	342	4	0.01	431	0.77	392	8	0.01	766	1.36
284	1	0.00	316	0.56	343	5	0.01	436	0.77	393	14	0.02	780	1.39
285	1	0.00	317	0.56	344	4	0.01	440	0.78	394	15	0.03	795	1.41
287	2	0.00	319	0.57	345	1	0.00	441	0.78	395	15	0.03	810	1.44
290	1	0.00	320	0.57	346	3	0.01	444	0.79	396	13	0.02	823	1.46
291	1	0.00	321	0.57	347	4	0.01	448	0.80	397	8	0.01	831	1.48
292	2	0.00	323	0.57	348	8	0.01	456	0.81	398	9	0.02	840	1.49
293	2	0.00	325	0.58	349	3	0.01	459	0.82	399	18	0.03	858	1.52
295	2	0.00	327	0.58	350	5	0.01	464	0.82	400	23	0.04	881	1.57
296	1	0.00	328	0.58	351	8	0.01	472	0.84	401	17	0.03	898	1.60
297	3	0.01	331	0.59	352	3	0.01	475	0.84	402	11	0.02	909	1.62
298	1	0.00	332	0.59	353	4	0.01	479	0.85	403	18	0.03	927	1.65
299	1	0.00	333	0.59	354	2	0.00	481	0.85	404	15	0.03	942	1.67
300	1	0.00	334	0.59	355	9	0.02	490	0.87	405	14	0.02	956	1.70
301	1	0.00	335	0.60	356	8	0.01	498	0.88	406	17	0.03	973	1.73
303	2	0.00	337	0.60	357	8	0.01	506	0.90	407	20	0.04	993	1.76
305	2	0.00	339	0.60	358	5	0.01	511	0.91	408	21	0.04	1014	1.80
306	3	0.01	342	0.61	359	5	0.01	516	0.92	409	16	0.03	1030	1.83
307	2	0.00	344	0.61	360	5	0.01	521	0.93	410	17	0.03	1047	1.86
308	1	0.00	345	0.61	361	8	0.01	529	0.94	411	21	0.04	1068	1.90
309	1	0.00	346	0.61	362	6	0.01	535	0.95	412	15	0.03	1083	1.92
310	2	0.00	348	0.62	363	4	0.01	539	0.96	413	27	0.05	1110	1.97
312	2	0.00	350	0.62	364	6	0.01	545	0.97	414	16	0.03	1126	2.00
313	4	0.01	354	0.63	365	5	0.01	550	0.98	415	20	0.04	1146	2.04
314	3	0.01	357	0.63	366	4	0.01	554	0.98	416	26	0.05	1172	2.08
315	2	0.00	359	0.64	367	8	0.01	562	1.00	417	18	0.03	1190	2.11
316	3	0.01	362	0.64	368	6	0.01	568	1.01	418	33	0.06	1223	2.17
317	4	0.01	366	0.65	369	13	0.02	581	1.03	419	19	0.03	1242	2.21
318	2	0.00	368	0.65	370	4	0.01	585	1.04	420	26	0.05	1268	2.25
319	1	0.00	369	0.66	371	6	0.01	591	1.05	421	28	0.05	1296	2.30
320	4	0.01	373	0.66	372	6	0.01	597	1.06	422	17	0.03	1313	2.33
321	4	0.01	377	0.67	373	11	0.02	608	1.08	423	21	0.04	1334	2.37

**Table 162. Reading 4 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
424	25	0.04	1359	2.41	474	77	0.14	3566	6.34	524	179	0.32	8835	15.70
425	21	0.04	1380	2.45	475	68	0.12	3634	6.46	525	157	0.28	8992	15.98
426	31	0.06	1411	2.51	476	86	0.15	3720	6.61	526	164	0.29	9156	16.27
427	38	0.07	1449	2.57	477	56	0.10	3776	6.71	527	161	0.29	9317	16.56
428	26	0.05	1475	2.62	478	59	0.10	3835	6.81	528	170	0.30	9487	16.86
429	23	0.04	1498	2.66	479	57	0.10	3892	6.92	529	155	0.28	9642	17.13
430	26	0.05	1524	2.71	480	78	0.14	3970	7.05	530	150	0.27	9792	17.40
431	31	0.06	1555	2.76	481	79	0.14	4049	7.19	531	154	0.27	9946	17.67
432	36	0.06	1591	2.83	482	56	0.10	4105	7.29	532	193	0.34	10139	18.02
433	33	0.06	1624	2.89	483	69	0.12	4174	7.42	533	188	0.33	10327	18.35
434	32	0.06	1656	2.94	484	83	0.15	4257	7.56	534	183	0.33	10510	18.68
435	37	0.07	1693	3.01	485	71	0.13	4328	7.69	535	210	0.37	10720	19.05
436	38	0.07	1731	3.08	486	75	0.13	4403	7.82	536	190	0.34	10910	19.39
437	45	0.08	1776	3.16	487	89	0.16	4492	7.98	537	193	0.34	11103	19.73
438	21	0.04	1797	3.19	488	74	0.13	4566	8.11	538	231	0.41	11334	20.14
439	47	0.08	1844	3.28	489	87	0.15	4653	8.27	539	210	0.37	11544	20.51
440	34	0.06	1878	3.34	490	80	0.14	4733	8.41	540	241	0.43	11785	20.94
441	41	0.07	1919	3.41	491	84	0.15	4817	8.56	541	208	0.37	11993	21.31
442	34	0.06	1953	3.47	492	87	0.15	4904	8.71	542	214	0.38	12207	21.69
443	36	0.06	1989	3.53	493	83	0.15	4987	8.86	543	202	0.36	12409	22.05
444	36	0.06	2025	3.60	494	89	0.16	5076	9.02	544	226	0.40	12635	22.45
445	44	0.08	2069	3.68	495	91	0.16	5167	9.18	545	250	0.44	12885	22.90
446	34	0.06	2103	3.74	496	97	0.17	5264	9.35	546	233	0.41	13118	23.31
447	39	0.07	2142	3.81	497	105	0.19	5369	9.54	547	250	0.44	13368	23.75
448	40	0.07	2182	3.88	498	83	0.15	5452	9.69	548	237	0.42	13605	24.18
449	32	0.06	2214	3.93	499	110	0.20	5562	9.88	549	230	0.41	13835	24.58
450	47	0.08	2261	4.02	500	122	0.22	5684	10.10	550	237	0.42	14072	25.01
451	38	0.07	2299	4.09	501	98	0.17	5782	10.27	551	264	0.47	14336	25.47
452	53	0.09	2352	4.18	502	105	0.19	5887	10.46	552	227	0.40	14563	25.88
453	40	0.07	2392	4.25	503	96	0.17	5983	10.63	553	260	0.46	14823	26.34
454	53	0.09	2445	4.34	504	117	0.21	6100	10.84	554	239	0.42	15062	26.76
455	48	0.09	2493	4.43	505	116	0.21	6216	11.05	555	281	0.50	15343	27.26
456	50	0.09	2543	4.52	506	96	0.17	6312	11.22	556	232	0.41	15575	27.68
457	53	0.09	2596	4.61	507	110	0.20	6422	11.41	557	278	0.49	15853	28.17
458	51	0.09	2647	4.70	508	118	0.21	6540	11.62	558	291	0.52	16144	28.69
459	44	0.08	2691	4.78	509	115	0.20	6655	11.83	559	285	0.51	16429	29.19
460	53	0.09	2744	4.88	510	109	0.19	6764	12.02	560	289	0.51	16718	29.71
461	51	0.09	2795	4.97	511	151	0.27	6915	12.29	561	278	0.49	16996	30.20
462	41	0.07	2836	5.04	512	118	0.21	7033	12.50	562	316	0.56	17312	30.76
463	53	0.09	2889	5.13	513	133	0.24	7166	12.73	563	296	0.53	17608	31.29
464	58	0.10	2947	5.24	514	136	0.24	7302	12.98	564	259	0.46	17867	31.75
465	44	0.08	2991	5.31	515	135	0.24	7437	13.22	565	295	0.52	18162	32.27
466	48	0.09	3039	5.40	516	137	0.24	7574	13.46	566	292	0.52	18454	32.79
467	43	0.08	3082	5.48	517	136	0.24	7710	13.70	567	292	0.52	18746	33.31
468	77	0.14	3159	5.61	518	161	0.29	7871	13.99	568	313	0.56	19059	33.87
469	72	0.13	3231	5.74	519	150	0.27	8021	14.25	569	303	0.54	19362	34.41
470	57	0.10	3288	5.84	520	171	0.30	8192	14.56	570	322	0.57	19684	34.98
471	60	0.11	3348	5.95	521	151	0.27	8343	14.83	571	332	0.59	20016	35.57
472	73	0.13	3421	6.08	522	167	0.30	8510	15.12	572	321	0.57	20337	36.14
473	68	0.12	3489	6.20	523	146	0.26	8656	15.38	573	320	0.57	20657	36.71

**Table 162. Reading 4 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
574	328	0.58	20985	37.29	621	362	0.64	39127	69.53	668	153	0.27	52336	93.00
575	373	0.66	21358	37.95	622	405	0.72	39532	70.25	669	153	0.27	52489	93.27
576	320	0.57	21678	38.52	623	377	0.67	39909	70.92	670	144	0.26	52633	93.53
577	364	0.65	22042	39.17	624	371	0.66	40280	71.58	671	126	0.22	52759	93.75
578	339	0.60	22381	39.77	625	348	0.62	40628	72.19	672	130	0.23	52889	93.98
579	351	0.62	22732	40.39	626	389	0.69	41017	72.89	673	155	0.28	53044	94.26
580	356	0.63	23088	41.03	627	387	0.69	41404	73.57	674	131	0.23	53175	94.49
581	342	0.61	23430	41.63	628	369	0.66	41773	74.23	675	142	0.25	53317	94.74
582	386	0.69	23816	42.32	629	351	0.62	42124	74.85	676	126	0.22	53443	94.97
583	365	0.65	24181	42.97	630	359	0.64	42483	75.49	677	114	0.20	53557	95.17
584	370	0.66	24551	43.63	631	324	0.58	42807	76.07	678	117	0.21	53674	95.38
585	392	0.70	24943	44.32	632	348	0.62	43155	76.68	679	108	0.19	53782	95.57
586	389	0.69	25332	45.01	633	315	0.56	43470	77.24	680	111	0.20	53893	95.77
587	389	0.69	25721	45.71	634	311	0.55	43781	77.80	681	103	0.18	53996	95.95
588	344	0.61	26065	46.32	635	353	0.63	44134	78.42	682	99	0.18	54095	96.12
589	381	0.68	26446	46.99	636	338	0.60	44472	79.02	683	97	0.17	54192	96.30
590	370	0.66	26816	47.65	637	325	0.58	44797	79.60	684	106	0.19	54298	96.49
591	384	0.68	27200	48.33	638	343	0.61	45140	80.21	685	86	0.15	54384	96.64
592	401	0.71	27601	49.05	639	327	0.58	45467	80.79	686	80	0.14	54464	96.78
593	404	0.72	28005	49.76	640	323	0.57	45790	81.37	687	71	0.13	54535	96.91
594	378	0.67	28383	50.44	641	308	0.55	46098	81.91	688	67	0.12	54602	97.03
595	387	0.69	28770	51.12	642	321	0.57	46419	82.48	689	85	0.15	54687	97.18
596	388	0.69	29158	51.81	643	304	0.54	46723	83.02	690	76	0.14	54763	97.31
597	423	0.75	29581	52.56	644	300	0.53	47023	83.56	691	87	0.15	54850	97.47
598	400	0.71	29981	53.27	645	282	0.50	47305	84.06	692	68	0.12	54918	97.59
599	392	0.70	30373	53.97	646	309	0.55	47614	84.61	693	76	0.14	54994	97.72
600	385	0.68	30758	54.66	647	267	0.47	47881	85.08	694	57	0.10	55051	97.82
601	433	0.77	31191	55.43	648	242	0.43	48123	85.51	695	47	0.08	55098	97.91
602	413	0.73	31604	56.16	649	255	0.45	48378	85.97	696	60	0.11	55158	98.01
603	375	0.67	31979	56.83	650	275	0.49	48653	86.45	697	52	0.09	55210	98.11
604	399	0.71	32378	57.53	651	263	0.47	48916	86.92	698	52	0.09	55262	98.20
605	410	0.73	32788	58.26	652	239	0.42	49155	87.35	699	51	0.09	55313	98.29
606	396	0.70	33184	58.97	653	245	0.44	49400	87.78	700	45	0.08	55358	98.37
607	412	0.73	33596	59.70	654	213	0.38	49613	88.16	701	51	0.09	55409	98.46
608	418	0.74	34014	60.44	655	219	0.39	49832	88.55	702	53	0.09	55462	98.55
609	397	0.71	34411	61.15	656	230	0.41	50062	88.96	703	32	0.06	55494	98.61
610	392	0.70	34803	61.84	657	218	0.39	50280	89.35	704	41	0.07	55535	98.68
611	407	0.72	35210	62.57	658	191	0.34	50471	89.68	705	27	0.05	55562	98.73
612	435	0.77	35645	63.34	659	211	0.37	50682	90.06	706	38	0.07	55600	98.80
613	373	0.66	36018	64.00	660	229	0.41	50911	90.47	707	27	0.05	55627	98.85
614	389	0.69	36407	64.69	661	208	0.37	51119	90.84	708	36	0.06	55663	98.91
615	391	0.69	36798	65.39	662	211	0.37	51330	91.21	709	44	0.08	55707	98.99
616	383	0.68	37181	66.07	663	178	0.32	51508	91.53	710	33	0.06	55740	99.05
617	394	0.70	37575	66.77	664	187	0.33	51695	91.86	711	29	0.05	55769	99.10
618	406	0.72	37981	67.49	665	174	0.31	51869	92.17	712	29	0.05	55798	99.15
619	379	0.67	38360	68.16	666	174	0.31	52043	92.48	713	19	0.03	55817	99.18
620	405	0.72	38765	68.88	667	140	0.25	52183	92.73	714	31	0.06	55848	99.24



**Table 162. Reading 4 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
715	27	0.05	55875	99.29	770	1	0.00	56256	99.96
716	27	0.05	55902	99.34	773	2	0.00	56258	99.97
717	25	0.04	55927	99.38	774	2	0.00	56260	99.97
718	16	0.03	55943	99.41	775	3	0.01	56263	99.98
719	15	0.03	55958	99.43	778	2	0.00	56265	99.98
720	22	0.04	55980	99.47	781	1	0.00	56266	99.98
721	22	0.04	56002	99.51	782	1	0.00	56267	99.98
722	15	0.03	56017	99.54	785	1	0.00	56268	99.99
723	11	0.02	56028	99.56	798	1	0.00	56269	99.99
724	19	0.03	56047	99.59	799	1	0.00	56270	99.99
725	11	0.02	56058	99.61	803	1	0.00	56271	99.99
726	14	0.02	56072	99.64	805	1	0.00	56272	99.99
727	15	0.03	56087	99.66	814	1	0.00	56273	99.99
728	15	0.03	56102	99.69	818	1	0.00	56274	100.00
729	13	0.02	56115	99.71	823	1	0.00	56275	100.00
730	10	0.02	56125	99.73	841	1	0.00	56276	100.00
731	8	0.01	56133	99.75					
732	5	0.01	56138	99.75					
733	6	0.01	56144	99.77					
734	8	0.01	56152	99.78					
735	6	0.01	56158	99.79					
736	11	0.02	56169	99.81					
737	5	0.01	56174	99.82					
738	6	0.01	56180	99.83					
739	2	0.00	56182	99.83					
740	7	0.01	56189	99.85					
741	4	0.01	56193	99.85					
742	5	0.01	56198	99.86					
743	7	0.01	56205	99.87					
744	2	0.00	56207	99.88					
745	6	0.01	56213	99.89					
746	3	0.01	56216	99.89					
747	4	0.01	56220	99.90					
748	2	0.00	56222	99.90					
749	3	0.01	56225	99.91					
750	5	0.01	56230	99.92					
751	1	0.00	56231	99.92					
752	1	0.00	56232	99.92					
753	3	0.01	56235	99.93					
754	2	0.00	56237	99.93					
755	2	0.00	56239	99.93					
756	2	0.00	56241	99.94					
757	2	0.00	56243	99.94					
758	2	0.00	56245	99.94					
759	3	0.01	56248	99.95					
761	1	0.00	56249	99.95					
762	2	0.00	56251	99.96					
763	1	0.00	56252	99.96					
767	1	0.00	56253	99.96					
769	2	0.00	56255	99.96					

**Table 163. Spanish Reading 4 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
397	1	0.38	1	0.38	511	3	1.14	106	40.15	569	1	0.38	229	86.74
426	1	0.38	2	0.76	512	2	0.76	108	40.91	570	1	0.38	230	87.12
427	1	0.38	3	1.14	514	3	1.14	111	42.05	571	1	0.38	231	87.50
435	1	0.38	4	1.52	515	2	0.76	113	42.80	572	4	1.52	235	89.02
442	1	0.38	5	1.89	516	2	0.76	115	43.56	574	1	0.38	236	89.39
446	1	0.38	6	2.27	517	1	0.38	116	43.94	576	3	1.14	239	90.53
450	1	0.38	7	2.65	518	1	0.38	117	44.32	577	3	1.14	242	91.67
452	1	0.38	8	3.03	519	2	0.76	119	45.08	578	1	0.38	243	92.05
453	1	0.38	9	3.41	521	7	2.65	126	47.73	579	1	0.38	244	92.42
454	1	0.38	10	3.79	522	2	0.76	128	48.48	580	1	0.38	245	92.80
460	1	0.38	11	4.17	523	1	0.38	129	48.86	581	1	0.38	246	93.18
462	2	0.76	13	4.92	524	4	1.52	133	50.38	582	1	0.38	247	93.56
463	1	0.38	14	5.30	525	2	0.76	135	51.14	586	1	0.38	248	93.94
466	1	0.38	15	5.68	526	5	1.89	140	53.03	589	1	0.38	249	94.32
467	3	1.14	18	6.82	527	4	1.52	144	54.55	590	1	0.38	250	94.70
468	3	1.14	21	7.95	528	4	1.52	148	56.06	591	1	0.38	251	95.08
470	2	0.76	23	8.71	529	4	1.52	152	57.58	593	2	0.76	253	95.83
472	2	0.76	25	9.47	530	3	1.14	155	58.71	594	1	0.38	254	96.21
473	1	0.38	26	9.85	531	2	0.76	157	59.47	595	2	0.76	256	96.97
474	1	0.38	27	10.23	532	4	1.52	161	60.98	598	1	0.38	257	97.35
475	2	0.76	29	10.98	534	2	0.76	163	61.74	601	1	0.38	258	97.73
476	2	0.76	31	11.74	535	1	0.38	164	62.12	604	1	0.38	259	98.11
477	3	1.14	34	12.88	536	5	1.89	169	64.02	605	1	0.38	260	98.48
479	3	1.14	37	14.02	537	4	1.52	173	65.53	608	1	0.38	261	98.86
481	1	0.38	38	14.39	538	2	0.76	175	66.29	618	1	0.38	262	99.24
483	1	0.38	39	14.77	539	2	0.76	177	67.05	623	1	0.38	263	99.62
484	4	1.52	43	16.29	541	4	1.52	181	68.56	644	1	0.38	264	100.00
485	2	0.76	45	17.05	544	4	1.52	185	70.08					
487	1	0.38	46	17.42	545	3	1.14	188	71.21					
488	1	0.38	47	17.80	546	1	0.38	189	71.59					
489	2	0.76	49	18.56	547	2	0.76	191	72.35					
490	1	0.38	50	18.94	549	2	0.76	193	73.11					
491	2	0.76	52	19.70	550	3	1.14	196	74.24					
493	7	2.65	59	22.35	551	1	0.38	197	74.62					
494	1	0.38	60	22.73	552	1	0.38	198	75.00					
495	3	1.14	63	23.86	553	4	1.52	202	76.52					
496	5	1.89	68	25.76	554	1	0.38	203	76.89					
497	1	0.38	69	26.14	555	2	0.76	205	77.65					
498	1	0.38	70	26.52	556	1	0.38	206	78.03					
499	2	0.76	72	27.27	557	3	1.14	209	79.17					
500	1	0.38	73	27.65	558	1	0.38	210	79.55					
501	7	2.65	80	30.30	560	2	0.76	212	80.30					
502	4	1.52	84	31.82	561	1	0.38	213	80.68					
503	3	1.14	87	32.95	562	2	0.76	215	81.44					
504	1	0.38	88	33.33	563	2	0.76	217	82.20					
505	1	0.38	89	33.71	564	1	0.38	218	82.58					
507	2	0.76	91	34.47	565	3	1.14	221	83.71					
508	3	1.14	94	35.61	566	2	0.76	223	84.47					
509	4	1.52	98	37.12	567	4	1.52	227	85.98					
510	5	1.89	103	39.02	568	1	0.38	228	86.36					

**Table 164. Writing 4 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
190	11	0.02	11	0.02	319	4	0.01	87	0.15	369	37	0.07	771	1.37
198	1	0.00	12	0.02	320	6	0.01	93	0.17	370	34	0.06	805	1.43
202	1	0.00	13	0.02	321	5	0.01	98	0.17	371	41	0.07	846	1.50
206	1	0.00	14	0.02	322	3	0.01	101	0.18	372	41	0.07	887	1.58
207	1	0.00	15	0.03	323	4	0.01	105	0.19	373	41	0.07	928	1.65
211	1	0.00	16	0.03	324	2	0.00	107	0.19	374	37	0.07	965	1.71
213	1	0.00	17	0.03	325	3	0.01	110	0.20	375	49	0.09	1014	1.80
232	1	0.00	18	0.03	326	2	0.00	112	0.20	376	46	0.08	1060	1.88
238	1	0.00	19	0.03	327	7	0.01	119	0.21	377	37	0.07	1097	1.95
243	1	0.00	20	0.04	328	4	0.01	123	0.22	378	62	0.11	1159	2.06
246	1	0.00	21	0.04	329	4	0.01	127	0.23	379	52	0.09	1211	2.15
250	1	0.00	22	0.04	330	4	0.01	131	0.23	380	65	0.12	1276	2.27
251	1	0.00	23	0.04	331	4	0.01	135	0.24	381	67	0.12	1343	2.39
252	1	0.00	24	0.04	332	10	0.02	145	0.26	382	51	0.09	1394	2.48
253	1	0.00	25	0.04	333	6	0.01	151	0.27	383	72	0.13	1466	2.60
255	1	0.00	26	0.05	334	9	0.02	160	0.28	384	74	0.13	1540	2.74
260	1	0.00	27	0.05	335	5	0.01	165	0.29	385	71	0.13	1611	2.86
261	1	0.00	28	0.05	336	6	0.01	171	0.30	386	74	0.13	1685	2.99
265	1	0.00	29	0.05	337	4	0.01	175	0.31	387	74	0.13	1759	3.13
266	2	0.00	31	0.06	338	13	0.02	188	0.33	388	74	0.13	1833	3.26
268	1	0.00	32	0.06	339	8	0.01	196	0.35	389	73	0.13	1906	3.39
269	1	0.00	33	0.06	340	14	0.02	210	0.37	390	77	0.14	1983	3.52
271	1	0.00	34	0.06	341	8	0.01	218	0.39	391	83	0.15	2066	3.67
275	1	0.00	35	0.06	342	12	0.02	230	0.41	392	78	0.14	2144	3.81
276	2	0.00	37	0.07	343	14	0.02	244	0.43	393	87	0.15	2231	3.96
278	1	0.00	38	0.07	344	7	0.01	251	0.45	394	79	0.14	2310	4.10
280	2	0.00	40	0.07	345	11	0.02	262	0.47	395	97	0.17	2407	4.28
285	1	0.00	41	0.07	346	21	0.04	283	0.50	396	93	0.17	2500	4.44
286	1	0.00	42	0.07	347	15	0.03	298	0.53	397	94	0.17	2594	4.61
288	2	0.00	44	0.08	348	11	0.02	309	0.55	398	119	0.21	2713	4.82
289	1	0.00	45	0.08	349	10	0.02	319	0.57	399	115	0.20	2828	5.02
290	1	0.00	46	0.08	350	14	0.02	333	0.59	400	113	0.20	2941	5.23
291	3	0.01	49	0.09	351	16	0.03	349	0.62	401	123	0.22	3064	5.44
292	1	0.00	50	0.09	352	9	0.02	358	0.64	402	112	0.20	3176	5.64
293	2	0.00	52	0.09	353	15	0.03	373	0.66	403	118	0.21	3294	5.85
294	1	0.00	53	0.09	354	13	0.02	386	0.69	404	149	0.26	3443	6.12
297	4	0.01	57	0.10	355	29	0.05	415	0.74	405	135	0.24	3578	6.36
298	2	0.00	59	0.10	356	23	0.04	438	0.78	406	136	0.24	3714	6.60
303	2	0.00	61	0.11	357	19	0.03	457	0.81	407	125	0.22	3839	6.82
306	2	0.00	63	0.11	358	20	0.04	477	0.85	408	137	0.24	3976	7.06
307	1	0.00	64	0.11	359	24	0.04	501	0.89	409	152	0.27	4128	7.33
308	1	0.00	65	0.12	360	30	0.05	531	0.94	410	164	0.29	4292	7.63
309	2	0.00	67	0.12	361	27	0.05	558	0.99	411	131	0.23	4423	7.86
310	4	0.01	71	0.13	362	19	0.03	577	1.03	412	154	0.27	4577	8.13
311	1	0.00	72	0.13	363	25	0.04	602	1.07	413	182	0.32	4759	8.46
312	3	0.01	75	0.13	364	31	0.06	633	1.12	414	176	0.31	4935	8.77
313	3	0.01	78	0.14	365	17	0.03	650	1.15	415	174	0.31	5109	9.08
316	1	0.00	79	0.14	366	26	0.05	676	1.20	416	163	0.29	5272	9.37
317	2	0.00	81	0.14	367	27	0.05	703	1.25	417	192	0.34	5464	9.71
318	2	0.00	83	0.15	368	31	0.06	734	1.30	418	209	0.37	5673	10.08

**Table 164. Writing 4 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
419	201	0.36	5874	10.44	469	453	0.80	21867	38.85	519	322	0.57	43814	77.85
420	202	0.36	6076	10.80	470	467	0.83	22334	39.68	520	351	0.62	44165	78.48
421	178	0.32	6254	11.11	471	436	0.77	22770	40.46	521	367	0.65	44532	79.13
422	197	0.35	6451	11.46	472	427	0.76	23197	41.22	522	338	0.60	44870	79.73
423	212	0.38	6663	11.84	473	422	0.75	23619	41.97	523	352	0.63	45222	80.35
424	211	0.37	6874	12.21	474	466	0.83	24085	42.80	524	300	0.53	45522	80.89
425	228	0.41	7102	12.62	475	419	0.74	24504	43.54	525	305	0.54	45827	81.43
426	241	0.43	7343	13.05	476	503	0.89	25007	44.43	526	287	0.51	46114	81.94
427	238	0.42	7581	13.47	477	449	0.80	25456	45.23	527	280	0.50	46394	82.44
428	223	0.40	7804	13.87	478	444	0.79	25900	46.02	528	272	0.48	46666	82.92
429	243	0.43	8047	14.30	479	472	0.84	26372	46.86	529	283	0.50	46949	83.42
430	245	0.44	8292	14.73	480	486	0.86	26858	47.72	530	304	0.54	47253	83.96
431	274	0.49	8566	15.22	481	455	0.81	27313	48.53	531	225	0.40	47478	84.36
432	240	0.43	8806	15.65	482	492	0.87	27805	49.41	532	242	0.43	47720	84.79
433	271	0.48	9077	16.13	483	470	0.84	28275	50.24	533	275	0.49	47995	85.28
434	272	0.48	9349	16.61	484	463	0.82	28738	51.06	534	248	0.44	48243	85.72
435	313	0.56	9662	17.17	485	516	0.92	29254	51.98	535	243	0.43	48486	86.15
436	287	0.51	9949	17.68	486	465	0.83	29719	52.81	536	231	0.41	48717	86.56
437	284	0.50	10233	18.18	487	515	0.92	30234	53.72	537	225	0.40	48942	86.96
438	259	0.46	10492	18.64	488	452	0.80	30686	54.52	538	232	0.41	49174	87.38
439	274	0.49	10766	19.13	489	476	0.85	31162	55.37	539	253	0.45	49427	87.82
440	291	0.52	11057	19.65	490	515	0.92	31677	56.29	540	228	0.41	49655	88.23
441	320	0.57	11377	20.22	491	493	0.88	32170	57.16	541	193	0.34	49848	88.57
442	335	0.60	11712	20.81	492	442	0.79	32612	57.95	542	205	0.36	50053	88.94
443	299	0.53	12011	21.34	493	464	0.82	33076	58.77	543	191	0.34	50244	89.28
444	311	0.55	12322	21.89	494	466	0.83	33542	59.60	544	208	0.37	50452	89.65
445	337	0.60	12659	22.49	495	477	0.85	34019	60.45	545	191	0.34	50643	89.99
446	346	0.61	13005	23.11	496	469	0.83	34488	61.28	546	181	0.32	50824	90.31
447	351	0.62	13356	23.73	497	463	0.82	34951	62.10	547	195	0.35	51019	90.65
448	344	0.61	13700	24.34	498	464	0.82	35415	62.93	548	158	0.28	51177	90.93
449	326	0.58	14026	24.92	499	471	0.84	35886	63.76	549	189	0.34	51366	91.27
450	345	0.61	14371	25.54	500	422	0.75	36308	64.51	550	175	0.31	51541	91.58
451	366	0.65	14737	26.19	501	443	0.79	36751	65.30	551	125	0.22	51666	91.80
452	366	0.65	15103	26.84	502	486	0.86	37237	66.16	552	190	0.34	51856	92.14
453	368	0.65	15471	27.49	503	431	0.77	37668	66.93	553	120	0.21	51976	92.35
454	380	0.68	15851	28.17	504	443	0.79	38111	67.72	554	170	0.30	52146	92.66
455	371	0.66	16222	28.82	505	437	0.78	38548	68.49	555	132	0.23	52278	92.89
456	362	0.64	16584	29.47	506	420	0.75	38968	69.24	556	198	0.35	52476	93.24
457	370	0.66	16954	30.12	507	414	0.74	39382	69.98	557	98	0.17	52574	93.42
458	361	0.64	17315	30.77	508	414	0.74	39796	70.71	558	153	0.27	52727	93.69
459	390	0.69	17705	31.46	509	379	0.67	40175	71.39	559	117	0.21	52844	93.90
460	427	0.76	18132	32.22	510	415	0.74	40590	72.12	560	123	0.22	52967	94.12
461	427	0.76	18559	32.98	511	379	0.67	40969	72.80	561	75	0.13	53042	94.25
462	381	0.68	18940	33.65	512	368	0.65	41337	73.45	562	141	0.25	53183	94.50
463	403	0.72	19343	34.37	513	403	0.72	41740	74.17	563	76	0.14	53259	94.63
464	407	0.72	19750	35.09	514	396	0.70	42136	74.87	564	149	0.26	53408	94.90
465	408	0.72	20158	35.82	515	333	0.59	42469	75.46	565	79	0.14	53487	95.04
466	380	0.68	20538	36.49	516	357	0.63	42826	76.10	566	85	0.15	53572	95.19
467	434	0.77	20972	37.26	517	321	0.57	43147	76.67	567	60	0.11	53632	95.30
468	442	0.79	21414	38.05	518	345	0.61	43492	77.28	568	108	0.19	53740	95.49

**Table 164. Writing 4 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
569	80	0.14	53820	95.63	619	16	0.03	55754	99.07	687	3	0.01	56199	99.86
570	91	0.16	53911	95.79	620	9	0.02	55763	99.08	694	3	0.01	56202	99.86
571	61	0.11	53972	95.90	621	21	0.04	55784	99.12	695	25	0.04	56227	99.91
572	43	0.08	54015	95.98	622	9	0.02	55793	99.14	697	1	0.00	56228	99.91
573	73	0.13	54088	96.11	623	27	0.05	55820	99.18	698	8	0.01	56236	99.92
574	52	0.09	54140	96.20	624	13	0.02	55833	99.21	701	2	0.00	56238	99.93
575	154	0.27	54294	96.47	625	3	0.01	55836	99.21	712	11	0.02	56249	99.95
576	51	0.09	54345	96.56	626	13	0.02	55849	99.24	729	2	0.00	56251	99.95
577	49	0.09	54394	96.65	627	75	0.13	55924	99.37	730	28	0.05	56279	100.00
578	69	0.12	54463	96.77	628	4	0.01	55928	99.38					
579	32	0.06	54495	96.83	629	11	0.02	55939	99.40					
580	62	0.11	54557	96.94	630	11	0.02	55950	99.42					
581	53	0.09	54610	97.03	631	3	0.01	55953	99.42					
582	24	0.04	54634	97.08	632	10	0.02	55963	99.44					
583	48	0.09	54682	97.16	633	6	0.01	55969	99.45					
584	31	0.06	54713	97.22	634	6	0.01	55975	99.46					
585	48	0.09	54761	97.30	635	8	0.01	55983	99.47					
586	57	0.10	54818	97.40	636	3	0.01	55986	99.48					
587	47	0.08	54865	97.49	637	14	0.02	56000	99.50					
588	28	0.05	54893	97.54	638	14	0.02	56014	99.53					
589	87	0.15	54980	97.69	639	2	0.00	56016	99.53					
590	35	0.06	55015	97.75	640	6	0.01	56022	99.54					
591	41	0.07	55056	97.83	641	1	0.00	56023	99.55					
592	27	0.05	55083	97.87	642	8	0.01	56031	99.56					
593	46	0.08	55129	97.96	643	1	0.00	56032	99.56					
594	35	0.06	55164	98.02	644	12	0.02	56044	99.58					
595	34	0.06	55198	98.08	646	6	0.01	56050	99.59					
596	44	0.08	55242	98.16	647	2	0.00	56052	99.60					
597	22	0.04	55264	98.20	648	3	0.01	56055	99.60					
598	30	0.05	55294	98.25	649	3	0.01	56058	99.61					
599	22	0.04	55316	98.29	650	26	0.05	56084	99.65					
600	25	0.04	55341	98.33	651	2	0.00	56086	99.66					
601	23	0.04	55364	98.37	652	5	0.01	56091	99.67					
602	27	0.05	55391	98.42	653	5	0.01	56096	99.67					
603	53	0.09	55444	98.52	656	7	0.01	56103	99.69					
604	13	0.02	55457	98.54	657	30	0.05	56133	99.74					
605	27	0.05	55484	98.59	658	13	0.02	56146	99.76					
606	46	0.08	55530	98.67	659	1	0.00	56147	99.77					
607	24	0.04	55554	98.71	660	2	0.00	56149	99.77					
608	25	0.04	55579	98.76	662	1	0.00	56150	99.77					
609	14	0.02	55593	98.78	663	1	0.00	56151	99.77					
610	19	0.03	55612	98.81	664	3	0.01	56154	99.78					
611	16	0.03	55628	98.84	666	6	0.01	56160	99.79					
612	9	0.02	55637	98.86	668	6	0.01	56166	99.80					
613	11	0.02	55648	98.88	670	1	0.00	56167	99.80					
614	23	0.04	55671	98.92	671	3	0.01	56170	99.81					
615	28	0.05	55699	98.97	674	7	0.01	56177	99.82					
616	7	0.01	55706	98.98	676	8	0.01	56185	99.83					
617	10	0.02	55716	99.00	683	8	0.01	56193	99.85					
618	22	0.04	55738	99.04	686	3	0.01	56196	99.85					

**Table 165. Spanish Writing 4 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
361	1	0.38	1	0.38	500	4	1.52	90	34.09	556	1	0.38	233	88.26
389	1	0.38	2	0.76	501	4	1.52	94	35.61	558	2	0.76	235	89.02
426	1	0.38	3	1.14	502	3	1.14	97	36.74	560	2	0.76	237	89.77
427	1	0.38	4	1.52	503	2	0.76	99	37.50	562	1	0.38	238	90.15
428	1	0.38	5	1.89	504	4	1.52	103	39.02	563	1	0.38	239	90.53
429	1	0.38	6	2.27	505	6	2.27	109	41.29	566	2	0.76	241	91.29
433	2	0.76	8	3.03	506	7	2.65	116	43.94	568	3	1.14	244	92.42
442	1	0.38	9	3.41	507	3	1.14	119	45.08	569	1	0.38	245	92.80
443	2	0.76	11	4.17	508	4	1.52	123	46.59	570	1	0.38	246	93.18
444	2	0.76	13	4.92	509	5	1.89	128	48.48	571	1	0.38	247	93.56
445	1	0.38	14	5.30	510	2	0.76	130	49.24	573	2	0.76	249	94.32
446	1	0.38	15	5.68	511	5	1.89	135	51.14	576	2	0.76	251	95.08
447	1	0.38	16	6.06	512	4	1.52	139	52.65	577	1	0.38	252	95.45
448	1	0.38	17	6.44	513	3	1.14	142	53.79	578	1	0.38	253	95.83
452	1	0.38	18	6.82	514	4	1.52	146	55.30	579	1	0.38	254	96.21
454	1	0.38	19	7.20	515	2	0.76	148	56.06	582	2	0.76	256	96.97
455	1	0.38	20	7.58	516	4	1.52	152	57.58	587	1	0.38	257	97.35
456	1	0.38	21	7.95	517	6	2.27	158	59.85	589	1	0.38	258	97.73
457	2	0.76	23	8.71	518	1	0.38	159	60.23	590	1	0.38	259	98.11
458	1	0.38	24	9.09	519	2	0.76	161	60.98	595	1	0.38	260	98.48
461	1	0.38	25	9.47	520	3	1.14	164	62.12	599	1	0.38	261	98.86
462	1	0.38	26	9.85	521	4	1.52	168	63.64	606	1	0.38	262	99.24
463	2	0.76	28	10.61	522	2	0.76	170	64.39	616	1	0.38	263	99.62
467	2	0.76	30	11.36	523	4	1.52	174	65.91	620	1	0.38	264	100.00
468	3	1.14	33	12.50	524	3	1.14	177	67.05					
469	2	0.76	35	13.26	525	1	0.38	178	67.42					
470	1	0.38	36	13.64	526	1	0.38	179	67.80					
471	2	0.76	38	14.39	527	2	0.76	181	68.56					
473	1	0.38	39	14.77	529	2	0.76	183	69.32					
475	1	0.38	40	15.15	530	2	0.76	185	70.08					
476	3	1.14	43	16.29	531	2	0.76	187	70.83					
478	2	0.76	45	17.05	532	2	0.76	189	71.59					
479	1	0.38	46	17.42	533	4	1.52	193	73.11					
480	2	0.76	48	18.18	534	1	0.38	194	73.48					
481	4	1.52	52	19.70	535	3	1.14	197	74.62					
482	5	1.89	57	21.59	537	3	1.14	200	75.76					
484	1	0.38	58	21.97	538	3	1.14	203	76.89					
485	2	0.76	60	22.73	539	2	0.76	205	77.65					
486	1	0.38	61	23.11	540	4	1.52	209	79.17					
487	2	0.76	63	23.86	541	3	1.14	212	80.30					
488	5	1.89	68	25.76	542	2	0.76	214	81.06					
489	3	1.14	71	26.89	544	1	0.38	215	81.44					
490	2	0.76	73	27.65	545	4	1.52	219	82.95					
491	4	1.52	77	29.17	546	1	0.38	220	83.33					
493	1	0.38	78	29.55	548	1	0.38	221	83.71					
494	1	0.38	79	29.92	549	3	1.14	224	84.85					
495	2	0.76	81	30.68	552	2	0.76	226	85.61					
496	3	1.14	84	31.82	553	2	0.76	228	86.36					
497	1	0.38	85	32.20	554	2	0.76	230	87.12					
499	1	0.38	86	32.58	555	2	0.76	232	87.88					

**Table 166. Mathematics 4 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
180	60	0.11	60	0.11	242	4	0.01	199	0.35	292	13	0.02	632	1.12
181	1	0.00	61	0.11	243	6	0.01	205	0.36	293	16	0.03	648	1.14
182	2	0.00	63	0.11	244	2	0.00	207	0.37	294	15	0.03	663	1.17
183	2	0.00	65	0.11	245	2	0.00	209	0.37	295	20	0.04	683	1.21
184	1	0.00	66	0.12	246	9	0.02	218	0.38	296	16	0.03	699	1.23
187	2	0.00	68	0.12	247	4	0.01	222	0.39	297	26	0.05	725	1.28
188	2	0.00	70	0.12	248	4	0.01	226	0.40	298	19	0.03	744	1.31
190	1	0.00	71	0.13	249	2	0.00	228	0.40	299	16	0.03	760	1.34
193	1	0.00	72	0.13	250	6	0.01	234	0.41	300	9	0.02	769	1.36
195	1	0.00	73	0.13	251	6	0.01	240	0.42	301	21	0.04	790	1.39
197	1	0.00	74	0.13	252	6	0.01	246	0.43	302	21	0.04	811	1.43
198	1	0.00	75	0.13	253	2	0.00	248	0.44	303	23	0.04	834	1.47
199	3	0.01	78	0.14	254	3	0.01	251	0.44	304	19	0.03	853	1.51
200	2	0.00	80	0.14	255	8	0.01	259	0.46	305	23	0.04	876	1.55
201	3	0.01	83	0.15	256	5	0.01	264	0.47	306	19	0.03	895	1.58
202	1	0.00	84	0.15	257	5	0.01	269	0.47	307	23	0.04	918	1.62
203	1	0.00	85	0.15	258	10	0.02	279	0.49	308	30	0.05	948	1.67
206	2	0.00	87	0.15	259	5	0.01	284	0.50	309	17	0.03	965	1.70
207	1	0.00	88	0.16	260	4	0.01	288	0.51	310	26	0.05	991	1.75
208	1	0.00	89	0.16	261	5	0.01	293	0.52	311	19	0.03	1010	1.78
209	1	0.00	90	0.16	262	13	0.02	306	0.54	312	23	0.04	1033	1.82
210	3	0.01	93	0.16	263	5	0.01	311	0.55	313	21	0.04	1054	1.86
212	2	0.00	95	0.17	264	6	0.01	317	0.56	314	18	0.03	1072	1.89
213	3	0.01	98	0.17	265	2	0.00	319	0.56	315	27	0.05	1099	1.94
214	1	0.00	99	0.17	266	8	0.01	327	0.58	316	25	0.04	1124	1.98
215	3	0.01	102	0.18	267	10	0.02	337	0.59	317	26	0.05	1150	2.03
216	6	0.01	108	0.19	268	10	0.02	347	0.61	318	24	0.04	1174	2.07
218	1	0.00	109	0.19	269	7	0.01	354	0.62	319	32	0.06	1206	2.13
219	2	0.00	111	0.20	270	11	0.02	365	0.64	320	29	0.05	1235	2.18
220	5	0.01	116	0.20	271	19	0.03	384	0.68	321	28	0.05	1263	2.23
221	2	0.00	118	0.21	272	6	0.01	390	0.69	322	38	0.07	1301	2.30
222	4	0.01	122	0.22	273	12	0.02	402	0.71	323	34	0.06	1335	2.36
223	4	0.01	126	0.22	274	14	0.02	416	0.73	324	29	0.05	1364	2.41
224	4	0.01	130	0.23	275	8	0.01	424	0.75	325	52	0.09	1416	2.50
226	6	0.01	136	0.24	276	8	0.01	432	0.76	326	36	0.06	1452	2.56
227	3	0.01	139	0.25	277	10	0.02	442	0.78	327	32	0.06	1484	2.62
228	2	0.00	141	0.25	278	10	0.02	452	0.80	328	39	0.07	1523	2.69
229	3	0.01	144	0.25	279	8	0.01	460	0.81	329	40	0.07	1563	2.76
230	3	0.01	147	0.26	280	13	0.02	473	0.84	330	34	0.06	1597	2.82
231	4	0.01	151	0.27	281	10	0.02	483	0.85	331	43	0.08	1640	2.90
232	4	0.01	155	0.27	282	13	0.02	496	0.88	332	43	0.08	1683	2.97
233	8	0.01	163	0.29	283	14	0.02	510	0.90	333	50	0.09	1733	3.06
234	3	0.01	166	0.29	284	7	0.01	517	0.91	334	46	0.08	1779	3.14
235	3	0.01	169	0.30	285	11	0.02	528	0.93	335	44	0.08	1823	3.22
236	2	0.00	171	0.30	286	16	0.03	544	0.96	336	43	0.08	1866	3.29
237	3	0.01	174	0.31	287	10	0.02	554	0.98	337	44	0.08	1910	3.37
238	7	0.01	181	0.32	288	15	0.03	569	1.00	338	45	0.08	1955	3.45
239	3	0.01	184	0.32	289	14	0.02	583	1.03	339	38	0.07	1993	3.52
240	4	0.01	188	0.33	290	20	0.04	603	1.06	340	42	0.07	2035	3.59
241	7	0.01	195	0.34	291	16	0.03	619	1.09	341	53	0.09	2088	3.69

**Table 166. Mathematics 4 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
342	29	0.05	2117	3.74	392	108	0.19	5912	10.44	442	220	0.39	13886	24.51
343	40	0.07	2157	3.81	393	109	0.19	6021	10.63	443	220	0.39	14106	24.90
344	38	0.07	2195	3.88	394	97	0.17	6118	10.80	444	211	0.37	14317	25.28
345	66	0.12	2261	3.99	395	99	0.17	6217	10.98	445	206	0.36	14523	25.64
346	43	0.08	2304	4.07	396	118	0.21	6335	11.18	446	201	0.35	14724	25.99
347	44	0.08	2348	4.15	397	118	0.21	6453	11.39	447	218	0.38	14942	26.38
348	45	0.08	2393	4.22	398	109	0.19	6562	11.58	448	224	0.40	15166	26.77
349	59	0.10	2452	4.33	399	105	0.19	6667	11.77	449	232	0.41	15398	27.18
350	50	0.09	2502	4.42	400	112	0.20	6779	11.97	450	233	0.41	15631	27.60
351	55	0.10	2557	4.51	401	123	0.22	6902	12.18	451	248	0.44	15879	28.03
352	57	0.10	2614	4.61	402	127	0.22	7029	12.41	452	224	0.40	16103	28.43
353	47	0.08	2661	4.70	403	128	0.23	7157	12.64	453	231	0.41	16334	28.84
354	61	0.11	2722	4.81	404	114	0.20	7271	12.84	454	224	0.40	16558	29.23
355	59	0.10	2781	4.91	405	114	0.20	7385	13.04	455	240	0.42	16798	29.66
356	78	0.14	2859	5.05	406	141	0.25	7526	13.29	456	256	0.45	17054	30.11
357	63	0.11	2922	5.16	407	131	0.23	7657	13.52	457	239	0.42	17293	30.53
358	89	0.16	3011	5.32	408	149	0.26	7806	13.78	458	261	0.46	17554	30.99
359	62	0.11	3073	5.43	409	136	0.24	7942	14.02	459	259	0.46	17813	31.45
360	60	0.11	3133	5.53	410	145	0.26	8087	14.28	460	235	0.41	18048	31.86
361	56	0.10	3189	5.63	411	155	0.27	8242	14.55	461	291	0.51	18339	32.38
362	82	0.14	3271	5.77	412	140	0.25	8382	14.80	462	284	0.50	18623	32.88
363	61	0.11	3332	5.88	413	136	0.24	8518	15.04	463	272	0.48	18895	33.36
364	67	0.12	3399	6.00	414	159	0.28	8677	15.32	464	291	0.51	19186	33.87
365	65	0.11	3464	6.12	415	162	0.29	8839	15.60	465	285	0.50	19471	34.37
366	74	0.13	3538	6.25	416	178	0.31	9017	15.92	466	260	0.46	19731	34.83
367	75	0.13	3613	6.38	417	156	0.28	9173	16.19	467	247	0.44	19978	35.27
368	76	0.13	3689	6.51	418	154	0.27	9327	16.47	468	261	0.46	20239	35.73
369	77	0.14	3766	6.65	419	159	0.28	9486	16.75	469	276	0.49	20515	36.22
370	89	0.16	3855	6.81	420	164	0.29	9650	17.04	470	283	0.50	20798	36.72
371	66	0.12	3921	6.92	421	163	0.29	9813	17.32	471	309	0.55	21107	37.26
372	80	0.14	4001	7.06	422	169	0.30	9982	17.62	472	293	0.52	21400	37.78
373	88	0.16	4089	7.22	423	174	0.31	10156	17.93	473	296	0.52	21696	38.30
374	89	0.16	4178	7.38	424	167	0.29	10323	18.22	474	266	0.47	21962	38.77
375	76	0.13	4254	7.51	425	192	0.34	10515	18.56	475	246	0.43	22208	39.21
376	96	0.17	4350	7.68	426	183	0.32	10698	18.89	476	275	0.49	22483	39.69
377	77	0.14	4427	7.82	427	196	0.35	10894	19.23	477	277	0.49	22760	40.18
378	88	0.16	4515	7.97	428	171	0.30	11065	19.53	478	291	0.51	23051	40.69
379	91	0.16	4606	8.13	429	193	0.34	11258	19.88	479	283	0.50	23334	41.19
380	93	0.16	4699	8.30	430	214	0.38	11472	20.25	480	293	0.52	23627	41.71
381	89	0.16	4788	8.45	431	196	0.35	11668	20.60	481	265	0.47	23892	42.18
382	84	0.15	4872	8.60	432	206	0.36	11874	20.96	482	289	0.51	24181	42.69
383	111	0.20	4983	8.80	433	199	0.35	12073	21.31	483	317	0.56	24498	43.25
384	83	0.15	5066	8.94	434	185	0.33	12258	21.64	484	279	0.49	24777	43.74
385	96	0.17	5162	9.11	435	198	0.35	12456	21.99	485	296	0.52	25073	44.26
386	96	0.17	5258	9.28	436	173	0.31	12629	22.30	486	314	0.55	25387	44.82
387	100	0.18	5358	9.46	437	177	0.31	12806	22.61	487	319	0.56	25706	45.38
388	111	0.20	5469	9.66	438	243	0.43	13049	23.04	488	294	0.52	26000	45.90
389	105	0.19	5574	9.84	439	211	0.37	13260	23.41	489	313	0.55	26313	46.45
390	118	0.21	5692	10.05	440	209	0.37	13469	23.78	490	306	0.54	26619	46.99
391	112	0.20	5804	10.25	441	197	0.35	13666	24.13	491	322	0.57	26941	47.56



**Table 166. Mathematics 4 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
492	296	0.52	27237	48.08	539	260	0.46	41659	73.55	586	136	0.24	51147	90.30
493	298	0.53	27535	48.61	540	278	0.49	41937	74.04	587	154	0.27	51301	90.57
494	292	0.52	27827	49.13	541	275	0.49	42212	74.52	588	150	0.26	51451	90.83
495	324	0.57	28151	49.70	542	266	0.47	42478	74.99	589	129	0.23	51580	91.06
496	321	0.57	28472	50.26	543	268	0.47	42746	75.46	590	137	0.24	51717	91.30
497	314	0.55	28786	50.82	544	272	0.48	43018	75.94	591	132	0.23	51849	91.53
498	310	0.55	29096	51.37	545	244	0.43	43262	76.38	592	115	0.20	51964	91.74
499	309	0.55	29405	51.91	546	246	0.43	43508	76.81	593	120	0.21	52084	91.95
500	318	0.56	29723	52.47	547	242	0.43	43750	77.24	594	103	0.18	52187	92.13
501	355	0.63	30078	53.10	548	251	0.44	44001	77.68	595	119	0.21	52306	92.34
502	339	0.60	30417	53.70	549	245	0.43	44246	78.11	596	122	0.22	52428	92.56
503	295	0.52	30712	54.22	550	224	0.40	44470	78.51	597	98	0.17	52526	92.73
504	342	0.60	31054	54.82	551	233	0.41	44703	78.92	598	113	0.20	52639	92.93
505	312	0.55	31366	55.37	552	230	0.41	44933	79.33	599	106	0.19	52745	93.12
506	321	0.57	31687	55.94	553	257	0.45	45190	79.78	600	92	0.16	52837	93.28
507	335	0.59	32022	56.53	554	245	0.43	45435	80.21	601	90	0.16	52927	93.44
508	315	0.56	32337	57.09	555	232	0.41	45667	80.62	602	92	0.16	53019	93.60
509	306	0.54	32643	57.63	556	232	0.41	45899	81.03	603	113	0.20	53132	93.80
510	292	0.52	32935	58.14	557	232	0.41	46131	81.44	604	96	0.17	53228	93.97
511	314	0.55	33249	58.70	558	236	0.42	46367	81.86	605	89	0.16	53317	94.13
512	307	0.54	33556	59.24	559	216	0.38	46583	82.24	606	73	0.13	53390	94.26
513	321	0.57	33877	59.81	560	240	0.42	46823	82.66	607	76	0.13	53466	94.39
514	334	0.59	34211	60.40	561	200	0.35	47023	83.01	608	72	0.13	53538	94.52
515	307	0.54	34518	60.94	562	207	0.37	47230	83.38	609	99	0.17	53637	94.69
516	330	0.58	34848	61.52	563	217	0.38	47447	83.76	610	88	0.16	53725	94.85
517	326	0.58	35174	62.10	564	226	0.40	47673	84.16	611	88	0.16	53813	95.00
518	269	0.47	35443	62.57	565	184	0.32	47857	84.49	612	74	0.13	53887	95.13
519	337	0.59	35780	63.17	566	186	0.33	48043	84.82	613	72	0.13	53959	95.26
520	301	0.53	36081	63.70	567	181	0.32	48224	85.14	614	70	0.12	54029	95.38
521	305	0.54	36386	64.24	568	188	0.33	48412	85.47	615	72	0.13	54101	95.51
522	316	0.56	36702	64.79	569	181	0.32	48593	85.79	616	68	0.12	54169	95.63
523	318	0.56	37020	65.36	570	180	0.32	48773	86.10	617	71	0.13	54240	95.76
524	306	0.54	37326	65.90	571	169	0.30	48942	86.40	618	60	0.11	54300	95.86
525	343	0.61	37669	66.50	572	148	0.26	49090	86.66	619	61	0.11	54361	95.97
526	281	0.50	37950	67.00	573	171	0.30	49261	86.97	620	60	0.11	54421	96.08
527	303	0.53	38253	67.53	574	189	0.33	49450	87.30	621	56	0.10	54477	96.17
528	298	0.53	38551	68.06	575	169	0.30	49619	87.60	622	55	0.10	54532	96.27
529	273	0.48	38824	68.54	576	165	0.29	49784	87.89	623	67	0.12	54599	96.39
530	303	0.53	39127	69.08	577	161	0.28	49945	88.17	624	54	0.10	54653	96.49
531	292	0.52	39419	69.59	578	135	0.24	50080	88.41	625	60	0.11	54713	96.59
532	283	0.50	39702	70.09	579	124	0.22	50204	88.63	626	48	0.08	54761	96.68
533	291	0.51	39993	70.60	580	142	0.25	50346	88.88	627	51	0.09	54812	96.77
534	275	0.49	40268	71.09	581	120	0.21	50466	89.09	628	46	0.08	54858	96.85
535	284	0.50	40552	71.59	582	141	0.25	50607	89.34	629	39	0.07	54897	96.92
536	305	0.54	40857	72.13	583	121	0.21	50728	89.56	630	46	0.08	54943	97.00
537	276	0.49	41133	72.62	584	148	0.26	50876	89.82	631	65	0.11	55008	97.11
538	266	0.47	41399	73.09	585	135	0.24	51011	90.06	632	53	0.09	55061	97.21

**Table 166. Mathematics 4 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
633	43	0.08	55104	97.28	683	11	0.02	56218	99.25	742	2	0.00	56552	99.84
634	55	0.10	55159	97.38	684	9	0.02	56227	99.26	743	2	0.00	56554	99.84
635	36	0.06	55195	97.44	685	4	0.01	56231	99.27	744	2	0.00	56556	99.84
636	45	0.08	55240	97.52	686	13	0.02	56244	99.29	752	1	0.00	56557	99.85
637	42	0.07	55282	97.60	687	8	0.01	56252	99.31	755	2	0.00	56559	99.85
638	36	0.06	55318	97.66	688	26	0.05	56278	99.35	756	1	0.00	56560	99.85
639	27	0.05	55345	97.71	689	18	0.03	56296	99.39	759	1	0.00	56561	99.85
640	29	0.05	55374	97.76	690	14	0.02	56310	99.41	760	1	0.00	56562	99.86
641	27	0.05	55401	97.81	691	3	0.01	56313	99.42	762	3	0.01	56565	99.86
642	38	0.07	55439	97.87	692	5	0.01	56318	99.42	764	1	0.00	56566	99.86
643	31	0.05	55470	97.93	693	8	0.01	56326	99.44	775	3	0.01	56569	99.87
644	26	0.05	55496	97.97	694	7	0.01	56333	99.45	776	1	0.00	56570	99.87
645	35	0.06	55531	98.04	695	8	0.01	56341	99.47	779	1	0.00	56571	99.87
646	25	0.04	55556	98.08	696	8	0.01	56349	99.48	780	73	0.13	56644	100.00
647	30	0.05	55586	98.13	697	4	0.01	56353	99.49					
648	28	0.05	55614	98.18	698	8	0.01	56361	99.50					
649	26	0.05	55640	98.23	700	3	0.01	56364	99.51					
650	29	0.05	55669	98.28	701	7	0.01	56371	99.52					
651	30	0.05	55699	98.33	703	4	0.01	56375	99.53					
652	25	0.04	55724	98.38	704	22	0.04	56397	99.56					
653	28	0.05	55752	98.43	705	4	0.01	56401	99.57					
654	26	0.05	55778	98.47	707	7	0.01	56408	99.58					
655	22	0.04	55800	98.51	708	2	0.00	56410	99.59					
656	11	0.02	55811	98.53	709	2	0.00	56412	99.59					
657	13	0.02	55824	98.55	710	2	0.00	56414	99.59					
658	15	0.03	55839	98.58	711	1	0.00	56415	99.60					
659	22	0.04	55861	98.62	713	4	0.01	56419	99.60					
660	20	0.04	55881	98.65	714	4	0.01	56423	99.61					
661	24	0.04	55905	98.70	715	1	0.00	56424	99.61					
662	14	0.02	55919	98.72	716	3	0.01	56427	99.62					
663	32	0.06	55951	98.78	717	8	0.01	56435	99.63					
664	15	0.03	55966	98.80	718	8	0.01	56443	99.65					
665	16	0.03	55982	98.83	719	1	0.00	56444	99.65					
666	16	0.03	55998	98.86	720	5	0.01	56449	99.66					
667	22	0.04	56020	98.90	721	6	0.01	56455	99.67					
668	22	0.04	56042	98.94	722	2	0.00	56457	99.67					
669	13	0.02	56055	98.96	723	1	0.00	56458	99.67					
670	11	0.02	56066	98.98	724	5	0.01	56463	99.68					
671	11	0.02	56077	99.00	725	2	0.00	56465	99.68					
672	16	0.03	56093	99.03	727	11	0.02	56476	99.70					
673	11	0.02	56104	99.05	728	37	0.07	56513	99.77					
674	19	0.03	56123	99.08	730	10	0.02	56523	99.79					
675	15	0.03	56138	99.11	731	4	0.01	56527	99.79					
676	6	0.01	56144	99.12	733	5	0.01	56532	99.80					
677	2	0.00	56146	99.12	734	1	0.00	56533	99.80					
678	8	0.01	56154	99.13	736	4	0.01	56537	99.81					
679	10	0.02	56164	99.15	737	1	0.00	56538	99.81					
680	12	0.02	56176	99.17	739	3	0.01	56541	99.82					
681	13	0.02	56189	99.20	740	2	0.00	56543	99.82					
682	18	0.03	56207	99.23	741	7	0.01	56550	99.83					

**Table 167. Reading 5 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
220	171	0.30	171	0.30	338	1	0.00	248	0.44	390	7	0.01	451	0.80
241	1	0.00	172	0.30	339	2	0.00	250	0.44	391	7	0.01	458	0.81
265	1	0.00	173	0.31	340	1	0.00	251	0.44	392	3	0.01	461	0.81
269	1	0.00	174	0.31	342	2	0.00	253	0.45	393	6	0.01	467	0.82
271	1	0.00	175	0.31	343	1	0.00	254	0.45	394	7	0.01	474	0.84
272	1	0.00	176	0.31	344	1	0.00	255	0.45	395	10	0.02	484	0.85
273	1	0.00	177	0.31	345	4	0.01	259	0.46	396	11	0.02	495	0.87
274	2	0.00	179	0.32	346	5	0.01	264	0.47	397	4	0.01	499	0.88
276	1	0.00	180	0.32	347	2	0.00	266	0.47	398	7	0.01	506	0.89
277	1	0.00	181	0.32	348	2	0.00	268	0.47	399	10	0.02	516	0.91
280	1	0.00	182	0.32	349	2	0.00	270	0.48	400	10	0.02	526	0.93
283	2	0.00	184	0.32	350	1	0.00	271	0.48	401	11	0.02	537	0.95
284	1	0.00	185	0.33	351	2	0.00	273	0.48	402	7	0.01	544	0.96
285	1	0.00	186	0.33	352	5	0.01	278	0.49	403	7	0.01	551	0.97
288	1	0.00	187	0.33	353	2	0.00	280	0.49	404	10	0.02	561	0.99
289	1	0.00	188	0.33	355	4	0.01	284	0.50	405	9	0.02	570	1.01
292	1	0.00	189	0.33	356	5	0.01	289	0.51	406	12	0.02	582	1.03
295	1	0.00	190	0.34	357	6	0.01	295	0.52	407	9	0.02	591	1.04
296	1	0.00	191	0.34	358	2	0.00	297	0.52	408	8	0.01	599	1.06
297	2	0.00	193	0.34	359	1	0.00	298	0.53	409	11	0.02	610	1.08
298	1	0.00	194	0.34	360	5	0.01	303	0.53	410	11	0.02	621	1.10
299	2	0.00	196	0.35	361	2	0.00	305	0.54	411	7	0.01	628	1.11
301	2	0.00	198	0.35	362	5	0.01	310	0.55	412	14	0.02	642	1.13
303	2	0.00	200	0.35	363	1	0.00	311	0.55	413	7	0.01	649	1.14
304	2	0.00	202	0.36	364	4	0.01	315	0.56	414	15	0.03	664	1.17
305	1	0.00	203	0.36	365	5	0.01	320	0.56	415	14	0.02	678	1.20
306	3	0.01	206	0.36	366	5	0.01	325	0.57	416	11	0.02	689	1.22
308	2	0.00	208	0.37	367	4	0.01	329	0.58	417	12	0.02	701	1.24
310	2	0.00	210	0.37	368	2	0.00	331	0.58	418	15	0.03	716	1.26
311	1	0.00	211	0.37	369	5	0.01	336	0.59	419	11	0.02	727	1.28
313	2	0.00	213	0.38	370	7	0.01	343	0.60	420	15	0.03	742	1.31
314	1	0.00	214	0.38	371	5	0.01	348	0.61	421	16	0.03	758	1.34
315	3	0.01	217	0.38	372	4	0.01	352	0.62	422	15	0.03	773	1.36
316	1	0.00	218	0.38	373	2	0.00	354	0.62	423	14	0.02	787	1.39
319	1	0.00	219	0.39	374	2	0.00	356	0.63	424	10	0.02	797	1.41
322	1	0.00	220	0.39	375	8	0.01	364	0.64	425	14	0.02	811	1.43
324	3	0.01	223	0.39	376	4	0.01	368	0.65	426	25	0.04	836	1.47
325	1	0.00	224	0.40	377	6	0.01	374	0.66	427	18	0.03	854	1.51
326	1	0.00	225	0.40	378	1	0.00	375	0.66	428	18	0.03	872	1.54
327	3	0.01	228	0.40	379	7	0.01	382	0.67	429	21	0.04	893	1.57
328	2	0.00	230	0.41	380	5	0.01	387	0.68	430	9	0.02	902	1.59
329	1	0.00	231	0.41	381	7	0.01	394	0.69	431	16	0.03	918	1.62
330	2	0.00	233	0.41	382	3	0.01	397	0.70	432	21	0.04	939	1.66
331	1	0.00	234	0.41	383	3	0.01	400	0.71	433	16	0.03	955	1.68
332	3	0.01	237	0.42	384	6	0.01	406	0.72	434	18	0.03	973	1.72
333	2	0.00	239	0.42	385	7	0.01	413	0.73	435	21	0.04	994	1.75
334	2	0.00	241	0.42	386	6	0.01	419	0.74	436	18	0.03	1012	1.78
335	1	0.00	242	0.43	387	9	0.02	428	0.75	437	33	0.06	1045	1.84
336	1	0.00	243	0.43	388	11	0.02	439	0.77	438	20	0.04	1065	1.88
337	4	0.01	247	0.44	389	5	0.01	444	0.78	439	21	0.04	1086	1.92

**Table 167. Reading 5 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
440	28	0.05	1114	1.96	490	49	0.09	2965	5.23	540	149	0.26	7648	13.49
441	14	0.02	1128	1.99	491	49	0.09	3014	5.32	541	156	0.28	7804	13.76
442	31	0.05	1159	2.04	492	68	0.12	3082	5.43	542	133	0.23	7937	14.00
443	18	0.03	1177	2.08	493	55	0.10	3137	5.53	543	147	0.26	8084	14.26
444	19	0.03	1196	2.11	494	68	0.12	3205	5.65	544	132	0.23	8216	14.49
445	22	0.04	1218	2.15	495	56	0.10	3261	5.75	545	145	0.26	8361	14.74
446	28	0.05	1246	2.20	496	64	0.11	3325	5.86	546	174	0.31	8535	15.05
447	32	0.06	1278	2.25	497	69	0.12	3394	5.99	547	153	0.27	8688	15.32
448	31	0.05	1309	2.31	498	55	0.10	3449	6.08	548	129	0.23	8817	15.55
449	26	0.05	1335	2.35	499	69	0.12	3518	6.20	549	155	0.27	8972	15.82
450	19	0.03	1354	2.39	500	57	0.10	3575	6.30	550	179	0.32	9151	16.14
451	22	0.04	1376	2.43	501	62	0.11	3637	6.41	551	171	0.30	9322	16.44
452	25	0.04	1401	2.47	502	68	0.12	3705	6.53	552	175	0.31	9497	16.75
453	24	0.04	1425	2.51	503	103	0.18	3808	6.72	553	166	0.29	9663	17.04
454	38	0.07	1463	2.58	504	74	0.13	3882	6.85	554	161	0.28	9824	17.32
455	36	0.06	1499	2.64	505	79	0.14	3961	6.99	555	176	0.31	10000	17.63
456	33	0.06	1532	2.70	506	80	0.14	4041	7.13	556	220	0.39	10220	18.02
457	44	0.08	1576	2.78	507	72	0.13	4113	7.25	557	197	0.35	10417	18.37
458	32	0.06	1608	2.84	508	96	0.17	4209	7.42	558	204	0.36	10621	18.73
459	34	0.06	1642	2.90	509	93	0.16	4302	7.59	559	213	0.38	10834	19.11
460	38	0.07	1680	2.96	510	76	0.13	4378	7.72	560	188	0.33	11022	19.44
461	28	0.05	1708	3.01	511	92	0.16	4470	7.88	561	196	0.35	11218	19.78
462	41	0.07	1749	3.08	512	96	0.17	4566	8.05	562	200	0.35	11418	20.14
463	41	0.07	1790	3.16	513	89	0.16	4655	8.21	563	218	0.38	11636	20.52
464	46	0.08	1836	3.24	514	84	0.15	4739	8.36	564	201	0.35	11837	20.87
465	31	0.05	1867	3.29	515	75	0.13	4814	8.49	565	194	0.34	12031	21.22
466	39	0.07	1906	3.36	516	90	0.16	4904	8.65	566	221	0.39	12252	21.61
467	24	0.04	1930	3.40	517	98	0.17	5002	8.82	567	240	0.42	12492	22.03
468	31	0.05	1961	3.46	518	115	0.20	5117	9.02	568	224	0.40	12716	22.42
469	37	0.07	1998	3.52	519	85	0.15	5202	9.17	569	230	0.41	12946	22.83
470	33	0.06	2031	3.58	520	75	0.13	5277	9.31	570	232	0.41	13178	23.24
471	48	0.08	2079	3.67	521	92	0.16	5369	9.47	571	243	0.43	13421	23.67
472	39	0.07	2118	3.73	522	107	0.19	5476	9.66	572	261	0.46	13682	24.13
473	45	0.08	2163	3.81	523	92	0.16	5568	9.82	573	226	0.40	13908	24.53
474	42	0.07	2205	3.89	524	99	0.17	5667	9.99	574	228	0.40	14136	24.93
475	40	0.07	2245	3.96	525	88	0.16	5755	10.15	575	247	0.44	14383	25.36
476	50	0.09	2295	4.05	526	112	0.20	5867	10.35	576	245	0.43	14628	25.80
477	38	0.07	2333	4.11	527	118	0.21	5985	10.55	577	242	0.43	14870	26.22
478	40	0.07	2373	4.18	528	101	0.18	6086	10.73	578	281	0.50	15151	26.72
479	51	0.09	2424	4.27	529	126	0.22	6212	10.95	579	259	0.46	15410	27.17
480	44	0.08	2468	4.35	530	103	0.18	6315	11.14	580	275	0.48	15685	27.66
481	45	0.08	2513	4.43	531	123	0.22	6438	11.35	581	291	0.51	15976	28.17
482	43	0.08	2556	4.51	532	120	0.21	6558	11.56	582	265	0.47	16241	28.64
483	55	0.10	2611	4.60	533	143	0.25	6701	11.82	583	281	0.50	16522	29.14
484	38	0.07	2649	4.67	534	141	0.25	6842	12.07	584	289	0.51	16811	29.65
485	60	0.11	2709	4.78	535	123	0.22	6965	12.28	585	296	0.52	17107	30.17
486	45	0.08	2754	4.86	536	124	0.22	7089	12.50	586	275	0.48	17382	30.65
487	57	0.10	2811	4.96	537	125	0.22	7214	12.72	587	276	0.49	17658	31.14
488	47	0.08	2858	5.04	538	130	0.23	7344	12.95	588	334	0.59	17992	31.73
489	58	0.10	2916	5.14	539	155	0.27	7499	13.22	589	288	0.51	18280	32.24

**Table 167. Reading 5 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
590	310	0.55	18590	32.78	637	371	0.65	35596	62.77	684	225	0.40	50342	88.78
591	293	0.52	18883	33.30	638	399	0.70	35995	63.48	685	198	0.35	50540	89.12
592	308	0.54	19191	33.84	639	370	0.65	36365	64.13	686	198	0.35	50738	89.47
593	304	0.54	19495	34.38	640	378	0.67	36743	64.79	687	199	0.35	50937	89.82
594	321	0.57	19816	34.94	641	360	0.63	37103	65.43	688	171	0.30	51108	90.13
595	302	0.53	20118	35.48	642	378	0.67	37481	66.10	689	191	0.34	51299	90.46
596	331	0.58	20449	36.06	643	383	0.68	37864	66.77	690	183	0.32	51482	90.79
597	312	0.55	20761	36.61	644	369	0.65	38233	67.42	691	178	0.31	51660	91.10
598	310	0.55	21071	37.16	645	361	0.64	38594	68.06	692	153	0.27	51813	91.37
599	343	0.60	21414	37.76	646	329	0.58	38923	68.64	693	197	0.35	52010	91.72
600	337	0.59	21751	38.36	647	371	0.65	39294	69.29	694	156	0.28	52166	91.99
601	354	0.62	22105	38.98	648	373	0.66	39667	69.95	695	186	0.33	52352	92.32
602	324	0.57	22429	39.55	649	381	0.67	40048	70.62	696	180	0.32	52532	92.64
603	363	0.64	22792	40.19	650	381	0.67	40429	71.29	697	168	0.30	52700	92.93
604	330	0.58	23122	40.77	651	353	0.62	40782	71.92	698	141	0.25	52841	93.18
605	360	0.63	23482	41.41	652	348	0.61	41130	72.53	699	145	0.26	52986	93.44
606	348	0.61	23830	42.02	653	344	0.61	41474	73.14	700	152	0.27	53138	93.71
607	356	0.63	24186	42.65	654	370	0.65	41844	73.79	701	144	0.25	53282	93.96
608	376	0.66	24562	43.31	655	339	0.60	42183	74.39	702	135	0.24	53417	94.20
609	390	0.69	24952	44.00	656	382	0.67	42565	75.06	703	127	0.22	53544	94.42
610	335	0.59	25287	44.59	657	303	0.53	42868	75.60	704	107	0.19	53651	94.61
611	359	0.63	25646	45.23	658	336	0.59	43204	76.19	705	114	0.20	53765	94.81
612	368	0.65	26014	45.87	659	355	0.63	43559	76.81	706	133	0.23	53898	95.05
613	366	0.65	26380	46.52	660	298	0.53	43857	77.34	707	98	0.17	53996	95.22
614	377	0.66	26757	47.18	661	310	0.55	44167	77.89	708	123	0.22	54119	95.44
615	359	0.63	27116	47.82	662	293	0.52	44460	78.40	709	107	0.19	54226	95.62
616	337	0.59	27453	48.41	663	325	0.57	44785	78.98	710	106	0.19	54332	95.81
617	406	0.72	27859	49.13	664	321	0.57	45106	79.54	711	110	0.19	54442	96.01
618	382	0.67	28241	49.80	665	361	0.64	45467	80.18	712	85	0.15	54527	96.16
619	365	0.64	28606	50.45	666	309	0.54	45776	80.72	713	99	0.17	54626	96.33
620	371	0.65	28977	51.10	667	279	0.49	46055	81.22	714	85	0.15	54711	96.48
621	393	0.69	29370	51.79	668	304	0.54	46359	81.75	715	77	0.14	54788	96.62
622	362	0.64	29732	52.43	669	278	0.49	46637	82.24	716	93	0.16	54881	96.78
623	426	0.75	30158	53.18	670	289	0.51	46926	82.75	717	94	0.17	54975	96.95
624	393	0.69	30551	53.88	671	265	0.47	47191	83.22	718	74	0.13	55049	97.08
625	376	0.66	30927	54.54	672	270	0.48	47461	83.70	719	65	0.11	55114	97.19
626	382	0.67	31309	55.21	673	233	0.41	47694	84.11	720	66	0.12	55180	97.31
627	386	0.68	31695	55.89	674	291	0.51	47985	84.62	721	64	0.11	55244	97.42
628	362	0.64	32057	56.53	675	276	0.49	48261	85.11	722	68	0.12	55312	97.54
629	391	0.69	32448	57.22	676	241	0.42	48502	85.53	723	69	0.12	55381	97.66
630	406	0.72	32854	57.94	677	236	0.42	48738	85.95	724	45	0.08	55426	97.74
631	400	0.71	33254	58.64	678	222	0.39	48960	86.34	725	59	0.10	55485	97.85
632	375	0.66	33629	59.30	679	250	0.44	49210	86.78	726	52	0.09	55537	97.94
633	440	0.78	34069	60.08	680	242	0.43	49452	87.21	727	40	0.07	55577	98.01
634	385	0.68	34454	60.76	681	221	0.39	49673	87.60	728	45	0.08	55622	98.09
635	380	0.67	34834	61.43	682	228	0.40	49901	88.00	729	59	0.10	55681	98.19
636	391	0.69	35225	62.12	683	216	0.38	50117	88.38	730	37	0.07	55718	98.26

**Table 167. Reading 5 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
731	42	0.07	55760	98.33	781	4	0.01	56625	99.86
732	51	0.09	55811	98.42	782	3	0.01	56628	99.86
733	41	0.07	55852	98.49	783	5	0.01	56633	99.87
734	40	0.07	55892	98.56	784	4	0.01	56637	99.88
735	42	0.07	55934	98.64	785	5	0.01	56642	99.89
736	34	0.06	55968	98.70	786	4	0.01	56646	99.89
737	31	0.05	55999	98.75	787	2	0.00	56648	99.90
738	35	0.06	56034	98.81	788	1	0.00	56649	99.90
739	30	0.05	56064	98.87	789	1	0.00	56650	99.90
740	33	0.06	56097	98.92	790	1	0.00	56651	99.90
741	20	0.04	56117	98.96	791	1	0.00	56652	99.90
742	26	0.05	56143	99.01	792	2	0.00	56654	99.91
743	27	0.05	56170	99.05	793	6	0.01	56660	99.92
744	24	0.04	56194	99.10	794	1	0.00	56661	99.92
745	33	0.06	56227	99.15	795	2	0.00	56663	99.92
746	21	0.04	56248	99.19	796	1	0.00	56664	99.92
747	19	0.03	56267	99.22	797	6	0.01	56670	99.93
748	18	0.03	56285	99.26	798	1	0.00	56671	99.94
749	22	0.04	56307	99.29	799	1	0.00	56672	99.94
750	17	0.03	56324	99.32	800	2	0.00	56674	99.94
751	23	0.04	56347	99.37	801	2	0.00	56676	99.95
752	17	0.03	56364	99.40	802	2	0.00	56678	99.95
753	14	0.02	56378	99.42	804	1	0.00	56679	99.95
754	15	0.03	56393	99.45	805	2	0.00	56681	99.95
755	12	0.02	56405	99.47	806	1	0.00	56682	99.96
756	12	0.02	56417	99.49	809	2	0.00	56684	99.96
757	11	0.02	56428	99.51	810	1	0.00	56685	99.96
758	16	0.03	56444	99.54	811	1	0.00	56686	99.96
759	11	0.02	56455	99.56	812	1	0.00	56687	99.96
760	16	0.03	56471	99.58	814	1	0.00	56688	99.97
761	8	0.01	56479	99.60	817	1	0.00	56689	99.97
762	9	0.02	56488	99.61	818	2	0.00	56691	99.97
763	11	0.02	56499	99.63	819	1	0.00	56692	99.97
764	14	0.02	56513	99.66	823	2	0.00	56694	99.98
765	12	0.02	56525	99.68	826	1	0.00	56695	99.98
766	15	0.03	56540	99.71	828	1	0.00	56696	99.98
767	7	0.01	56547	99.72	829	1	0.00	56697	99.98
768	7	0.01	56554	99.73	831	2	0.00	56699	99.99
769	7	0.01	56561	99.74	832	1	0.00	56700	99.99
770	4	0.01	56565	99.75	833	1	0.00	56701	99.99
771	4	0.01	56569	99.76	836	1	0.00	56702	99.99
772	8	0.01	56577	99.77	839	1	0.00	56703	99.99
773	5	0.01	56582	99.78	850	1	0.00	56704	99.99
774	10	0.02	56592	99.80	858	1	0.00	56705	100.00
775	3	0.01	56595	99.80	864	1	0.00	56706	100.00
776	3	0.01	56598	99.81	869	1	0.00	56707	100.00
777	9	0.02	56607	99.82					
778	8	0.01	56615	99.84					
779	3	0.01	56618	99.84					
780	3	0.01	56621	99.85					

**Table 168. Writing 5 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
220	12	0.02	12	0.02	322	3	0.01	87	0.15	373	17	0.03	507	0.89
224	1	0.00	13	0.02	323	3	0.01	90	0.16	374	23	0.04	530	0.93
228	1	0.00	14	0.02	324	4	0.01	94	0.17	375	28	0.05	558	0.98
229	1	0.00	15	0.03	326	1	0.00	95	0.17	376	16	0.03	574	1.01
236	1	0.00	16	0.03	327	3	0.01	98	0.17	377	24	0.04	598	1.05
239	1	0.00	17	0.03	328	2	0.00	100	0.18	378	24	0.04	622	1.10
240	2	0.00	19	0.03	329	5	0.01	105	0.19	379	23	0.04	645	1.14
241	1	0.00	20	0.04	330	2	0.00	107	0.19	380	26	0.05	671	1.18
243	1	0.00	21	0.04	331	1	0.00	108	0.19	381	23	0.04	694	1.22
259	1	0.00	22	0.04	332	4	0.01	112	0.20	382	28	0.05	722	1.27
263	1	0.00	23	0.04	333	1	0.00	113	0.20	383	33	0.06	755	1.33
268	1	0.00	24	0.04	334	4	0.01	117	0.21	384	36	0.06	791	1.39
269	4	0.01	28	0.05	335	2	0.00	119	0.21	385	32	0.06	823	1.45
270	1	0.00	29	0.05	336	4	0.01	123	0.22	386	24	0.04	847	1.49
273	1	0.00	30	0.05	337	4	0.01	127	0.22	387	33	0.06	880	1.55
274	1	0.00	31	0.05	338	2	0.00	129	0.23	388	43	0.08	923	1.63
275	1	0.00	32	0.06	339	2	0.00	131	0.23	389	40	0.07	963	1.70
276	1	0.00	33	0.06	340	6	0.01	137	0.24	390	37	0.07	1000	1.76
280	1	0.00	34	0.06	341	5	0.01	142	0.25	391	44	0.08	1044	1.84
281	1	0.00	35	0.06	342	4	0.01	146	0.26	392	46	0.08	1090	1.92
282	1	0.00	36	0.06	343	5	0.01	151	0.27	393	37	0.07	1127	1.99
283	1	0.00	37	0.07	344	2	0.00	153	0.27	394	33	0.06	1160	2.05
286	1	0.00	38	0.07	345	3	0.01	156	0.28	395	46	0.08	1206	2.13
287	1	0.00	39	0.07	346	5	0.01	161	0.28	396	47	0.08	1253	2.21
288	1	0.00	40	0.07	347	2	0.00	163	0.29	397	59	0.10	1312	2.31
290	1	0.00	41	0.07	348	4	0.01	167	0.29	398	52	0.09	1364	2.41
291	2	0.00	43	0.08	349	8	0.01	175	0.31	399	49	0.09	1413	2.49
292	1	0.00	44	0.08	350	6	0.01	181	0.32	400	59	0.10	1472	2.60
294	2	0.00	46	0.08	351	9	0.02	190	0.34	401	61	0.11	1533	2.70
295	2	0.00	48	0.08	352	8	0.01	198	0.35	402	63	0.11	1596	2.81
296	1	0.00	49	0.09	353	9	0.02	207	0.37	403	60	0.11	1656	2.92
297	1	0.00	50	0.09	354	5	0.01	212	0.37	404	63	0.11	1719	3.03
298	1	0.00	51	0.09	355	5	0.01	217	0.38	405	60	0.11	1779	3.14
301	2	0.00	53	0.09	356	11	0.02	228	0.40	406	71	0.13	1850	3.26
302	3	0.01	56	0.10	357	14	0.02	242	0.43	407	74	0.13	1924	3.39
303	2	0.00	58	0.10	358	12	0.02	254	0.45	408	90	0.16	2014	3.55
304	2	0.00	60	0.11	359	19	0.03	273	0.48	409	88	0.16	2102	3.71
305	3	0.01	63	0.11	360	14	0.02	287	0.51	410	84	0.15	2186	3.86
306	2	0.00	65	0.11	361	15	0.03	302	0.53	411	96	0.17	2282	4.02
307	3	0.01	68	0.12	362	9	0.02	311	0.55	412	84	0.15	2366	4.17
308	1	0.00	69	0.12	363	18	0.03	329	0.58	413	75	0.13	2441	4.30
309	1	0.00	70	0.12	364	14	0.02	343	0.60	414	78	0.14	2519	4.44
311	1	0.00	71	0.13	365	12	0.02	355	0.63	415	101	0.18	2620	4.62
313	2	0.00	73	0.13	366	18	0.03	373	0.66	416	106	0.19	2726	4.81
315	2	0.00	75	0.13	367	19	0.03	392	0.69	417	120	0.21	2846	5.02
316	2	0.00	77	0.14	368	22	0.04	414	0.73	418	98	0.17	2944	5.19
317	1	0.00	78	0.14	369	12	0.02	426	0.75	419	116	0.20	3060	5.40
318	2	0.00	80	0.14	370	21	0.04	447	0.79	420	123	0.22	3183	5.61
319	1	0.00	81	0.14	371	20	0.04	467	0.82	421	124	0.22	3307	5.83
321	3	0.01	84	0.15	372	23	0.04	490	0.86	422	113	0.20	3420	6.03

**Table 168. Writing 5 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
423	133	0.23	3553	6.27	473	307	0.54	15029	26.50	523	420	0.74	35258	62.18
424	129	0.23	3682	6.49	474	385	0.68	15414	27.18	524	419	0.74	35677	62.92
425	141	0.25	3823	6.74	475	354	0.62	15768	27.81	525	417	0.74	36094	63.65
426	133	0.23	3956	6.98	476	362	0.64	16130	28.45	526	430	0.76	36524	64.41
427	145	0.26	4101	7.23	477	360	0.63	16490	29.08	527	415	0.73	36939	65.14
428	138	0.24	4239	7.48	478	364	0.64	16854	29.72	528	425	0.75	37364	65.89
429	154	0.27	4393	7.75	479	344	0.61	17198	30.33	529	405	0.71	37769	66.61
430	176	0.31	4569	8.06	480	385	0.68	17583	31.01	530	389	0.69	38158	67.29
431	144	0.25	4713	8.31	481	363	0.64	17946	31.65	531	430	0.76	38588	68.05
432	157	0.28	4870	8.59	482	381	0.67	18327	32.32	532	399	0.70	38987	68.76
433	151	0.27	5021	8.85	483	351	0.62	18678	32.94	533	381	0.67	39368	69.43
434	168	0.30	5189	9.15	484	368	0.65	19046	33.59	534	369	0.65	39737	70.08
435	142	0.25	5331	9.40	485	359	0.63	19405	34.22	535	395	0.70	40132	70.77
436	176	0.31	5507	9.71	486	362	0.64	19767	34.86	536	367	0.65	40499	71.42
437	181	0.32	5688	10.03	487	376	0.66	20143	35.52	537	388	0.68	40887	72.11
438	195	0.34	5883	10.37	488	398	0.70	20541	36.22	538	358	0.63	41245	72.74
439	185	0.33	6068	10.70	489	429	0.76	20970	36.98	539	381	0.67	41626	73.41
440	193	0.34	6261	11.04	490	363	0.64	21333	37.62	540	383	0.68	42009	74.08
441	206	0.36	6467	11.40	491	375	0.66	21708	38.28	541	339	0.60	42348	74.68
442	189	0.33	6656	11.74	492	393	0.69	22101	38.98	542	339	0.60	42687	75.28
443	226	0.40	6882	12.14	493	418	0.74	22519	39.71	543	325	0.57	43012	75.85
444	205	0.36	7087	12.50	494	390	0.69	22909	40.40	544	334	0.59	43346	76.44
445	215	0.38	7302	12.88	495	427	0.75	23336	41.15	545	360	0.63	43706	77.08
446	221	0.39	7523	13.27	496	441	0.78	23777	41.93	546	334	0.59	44040	77.67
447	231	0.41	7754	13.67	497	407	0.72	24184	42.65	547	295	0.52	44335	78.19
448	219	0.39	7973	14.06	498	439	0.77	24623	43.42	548	299	0.53	44634	78.71
449	221	0.39	8194	14.45	499	426	0.75	25049	44.18	549	339	0.60	44973	79.31
450	228	0.40	8422	14.85	500	398	0.70	25447	44.88	550	327	0.58	45300	79.89
451	247	0.44	8669	15.29	501	421	0.74	25868	45.62	551	328	0.58	45628	80.47
452	236	0.42	8905	15.70	502	427	0.75	26295	46.37	552	290	0.51	45918	80.98
453	262	0.46	9167	16.17	503	402	0.71	26697	47.08	553	271	0.48	46189	81.46
454	248	0.44	9415	16.60	504	439	0.77	27136	47.86	554	259	0.46	46448	81.91
455	271	0.48	9686	17.08	505	432	0.76	27568	48.62	555	290	0.51	46738	82.42
456	274	0.48	9960	17.56	506	452	0.80	28020	49.41	556	272	0.48	47010	82.90
457	276	0.49	10236	18.05	507	455	0.80	28475	50.22	557	270	0.48	47280	83.38
458	263	0.46	10499	18.52	508	456	0.80	28931	51.02	558	258	0.45	47538	83.84
459	272	0.48	10771	19.00	509	416	0.73	29347	51.75	559	252	0.44	47790	84.28
460	278	0.49	11049	19.49	510	421	0.74	29768	52.50	560	243	0.43	48033	84.71
461	273	0.48	11322	19.97	511	411	0.72	30179	53.22	561	267	0.47	48300	85.18
462	260	0.46	11582	20.43	512	413	0.73	30592	53.95	562	253	0.45	48553	85.63
463	285	0.50	11867	20.93	513	410	0.72	31002	54.67	563	205	0.36	48758	85.99
464	303	0.53	12170	21.46	514	467	0.82	31469	55.50	564	225	0.40	48983	86.38
465	309	0.54	12479	22.01	515	416	0.73	31885	56.23	565	224	0.40	49207	86.78
466	319	0.56	12798	22.57	516	453	0.80	32338	57.03	566	231	0.41	49438	87.19
467	291	0.51	13089	23.08	517	407	0.72	32745	57.75	567	224	0.40	49662	87.58
468	319	0.56	13408	23.65	518	414	0.73	33159	58.48	568	195	0.34	49857	87.93
469	325	0.57	13733	24.22	519	430	0.76	33589	59.24	569	202	0.36	50059	88.28
470	319	0.56	14052	24.78	520	407	0.72	33996	59.95	570	182	0.32	50241	88.60
471	325	0.57	14377	25.35	521	411	0.72	34407	60.68	571	175	0.31	50416	88.91
472	345	0.61	14722	25.96	522	431	0.76	34838	61.44	572	177	0.31	50593	89.22



**Table 168. Writing 5 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
573	194	0.34	50787	89.57	623	33	0.06	55630	98.11	673	3	0.01	56503	99.65
574	173	0.31	50960	89.87	624	29	0.05	55659	98.16	674	5	0.01	56508	99.65
575	176	0.31	51136	90.18	625	36	0.06	55695	98.22	675	6	0.01	56514	99.66
576	195	0.34	51331	90.52	626	30	0.05	55725	98.27	676	4	0.01	56518	99.67
577	180	0.32	51511	90.84	627	34	0.06	55759	98.33	677	2	0.00	56520	99.68
578	157	0.28	51668	91.12	628	39	0.07	55798	98.40	678	1	0.00	56521	99.68
579	140	0.25	51808	91.37	629	37	0.07	55835	98.47	679	5	0.01	56526	99.69
580	162	0.29	51970	91.65	630	29	0.05	55864	98.52	680	6	0.01	56532	99.70
581	175	0.31	52145	91.96	631	24	0.04	55888	98.56	681	2	0.00	56534	99.70
582	149	0.26	52294	92.22	632	32	0.06	55920	98.62	682	2	0.00	56536	99.70
583	139	0.25	52433	92.47	633	33	0.06	55953	98.68	683	8	0.01	56544	99.72
584	131	0.23	52564	92.70	634	16	0.03	55969	98.70	685	18	0.03	56562	99.75
585	130	0.23	52694	92.93	635	21	0.04	55990	98.74	686	9	0.02	56571	99.77
586	135	0.24	52829	93.17	636	18	0.03	56008	98.77	687	14	0.02	56585	99.79
587	134	0.24	52963	93.40	637	18	0.03	56026	98.80	689	7	0.01	56592	99.80
588	121	0.21	53084	93.62	638	23	0.04	56049	98.84	690	4	0.01	56596	99.81
589	122	0.22	53206	93.83	639	27	0.05	56076	98.89	691	2	0.00	56598	99.81
590	126	0.22	53332	94.05	640	22	0.04	56098	98.93	692	7	0.01	56605	99.83
591	113	0.20	53445	94.25	641	19	0.03	56117	98.96	693	8	0.01	56613	99.84
592	103	0.18	53548	94.43	642	20	0.04	56137	99.00	694	3	0.01	56616	99.84
593	112	0.20	53660	94.63	643	15	0.03	56152	99.03	695	10	0.02	56626	99.86
594	98	0.17	53758	94.80	644	21	0.04	56173	99.06	697	5	0.01	56631	99.87
595	103	0.18	53861	94.99	645	27	0.05	56200	99.11	698	2	0.00	56633	99.87
596	90	0.16	53951	95.14	646	18	0.03	56218	99.14	699	2	0.00	56635	99.88
597	101	0.18	54052	95.32	647	19	0.03	56237	99.18	700	3	0.01	56638	99.88
598	88	0.16	54140	95.48	648	10	0.02	56247	99.19	701	5	0.01	56643	99.89
599	75	0.13	54215	95.61	649	14	0.02	56261	99.22	702	2	0.00	56645	99.90
600	83	0.15	54298	95.76	650	10	0.02	56271	99.24	703	3	0.01	56648	99.90
601	72	0.13	54370	95.88	651	14	0.02	56285	99.26	705	1	0.00	56649	99.90
602	79	0.14	54449	96.02	652	14	0.02	56299	99.29	706	1	0.00	56650	99.90
603	106	0.19	54555	96.21	653	12	0.02	56311	99.31	709	1	0.00	56651	99.91
604	97	0.17	54652	96.38	654	10	0.02	56321	99.32	712	1	0.00	56652	99.91
605	83	0.15	54735	96.53	655	13	0.02	56334	99.35	713	2	0.00	56654	99.91
606	61	0.11	54796	96.64	656	11	0.02	56345	99.37	715	1	0.00	56655	99.91
607	65	0.11	54861	96.75	657	12	0.02	56357	99.39	718	2	0.00	56657	99.92
608	67	0.12	54928	96.87	658	9	0.02	56366	99.40	722	3	0.01	56660	99.92
609	77	0.14	55005	97.00	659	17	0.03	56383	99.43	723	1	0.00	56661	99.92
610	48	0.08	55053	97.09	660	8	0.01	56391	99.45	726	4	0.01	56665	99.93
611	56	0.10	55109	97.19	661	5	0.01	56396	99.46	730	6	0.01	56671	99.94
612	34	0.06	55143	97.25	662	12	0.02	56408	99.48	732	10	0.02	56681	99.96
613	54	0.10	55197	97.34	663	15	0.03	56423	99.50	734	1	0.00	56682	99.96
614	49	0.09	55246	97.43	664	11	0.02	56434	99.52	735	7	0.01	56689	99.97
615	39	0.07	55285	97.50	665	19	0.03	56453	99.56	741	1	0.00	56690	99.98
616	52	0.09	55337	97.59	666	15	0.03	56468	99.58	742	1	0.00	56691	99.98
617	50	0.09	55387	97.68	667	6	0.01	56474	99.59	746	3	0.01	56694	99.98
618	54	0.10	55441	97.77	668	3	0.01	56477	99.60	765	2	0.00	56696	99.99
619	42	0.07	55483	97.85	669	8	0.01	56485	99.61	780	8	0.01	56704	100.00
620	46	0.08	55529	97.93	670	9	0.02	56494	99.63					
621	35	0.06	55564	97.99	671	4	0.01	56498	99.64					
622	33	0.06	55597	98.05	672	2	0.00	56500	99.64					

**Table 169. Mathematics 5 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
220	65	0.11	65	0.11	274	9	0.02	220	0.39	324	22	0.04	724	1.28
221	1	0.00	66	0.12	275	5	0.01	225	0.40	325	10	0.02	734	1.29
222	3	0.01	69	0.12	276	4	0.01	229	0.40	326	20	0.04	754	1.33
223	2	0.00	71	0.13	277	4	0.01	233	0.41	327	21	0.04	775	1.37
224	5	0.01	76	0.13	278	9	0.02	242	0.43	328	15	0.03	790	1.39
225	1	0.00	77	0.14	279	4	0.01	246	0.43	329	21	0.04	811	1.43
226	2	0.00	79	0.14	280	5	0.01	251	0.44	330	28	0.05	839	1.48
227	1	0.00	80	0.14	281	2	0.00	253	0.45	331	26	0.05	865	1.52
229	1	0.00	81	0.14	282	6	0.01	259	0.46	332	26	0.05	891	1.57
230	3	0.01	84	0.15	283	6	0.01	265	0.47	333	20	0.04	911	1.61
231	1	0.00	85	0.15	284	7	0.01	272	0.48	334	13	0.02	924	1.63
232	2	0.00	87	0.15	285	4	0.01	276	0.49	335	18	0.03	942	1.66
233	1	0.00	88	0.16	286	9	0.02	285	0.50	336	13	0.02	955	1.68
234	3	0.01	91	0.16	287	7	0.01	292	0.51	337	19	0.03	974	1.72
235	1	0.00	92	0.16	288	4	0.01	296	0.52	338	33	0.06	1007	1.77
236	5	0.01	97	0.17	289	4	0.01	300	0.53	339	20	0.04	1027	1.81
238	2	0.00	99	0.17	290	5	0.01	305	0.54	340	23	0.04	1050	1.85
239	1	0.00	100	0.18	291	6	0.01	311	0.55	341	23	0.04	1073	1.89
240	1	0.00	101	0.18	292	9	0.02	320	0.56	342	22	0.04	1095	1.93
241	2	0.00	103	0.18	293	6	0.01	326	0.57	343	22	0.04	1117	1.97
242	4	0.01	107	0.19	294	7	0.01	333	0.59	344	32	0.06	1149	2.03
243	2	0.00	109	0.19	295	7	0.01	340	0.60	345	20	0.04	1169	2.06
244	1	0.00	110	0.19	296	13	0.02	353	0.62	346	27	0.05	1196	2.11
245	1	0.00	111	0.20	297	11	0.02	364	0.64	347	19	0.03	1215	2.14
246	3	0.01	114	0.20	298	17	0.03	381	0.67	348	27	0.05	1242	2.19
247	3	0.01	117	0.21	299	7	0.01	388	0.68	349	28	0.05	1270	2.24
248	1	0.00	118	0.21	300	16	0.03	404	0.71	350	32	0.06	1302	2.29
249	1	0.00	119	0.21	301	6	0.01	410	0.72	351	27	0.05	1329	2.34
250	2	0.00	121	0.21	302	11	0.02	421	0.74	352	34	0.06	1363	2.40
251	1	0.00	122	0.22	303	13	0.02	434	0.76	353	22	0.04	1385	2.44
252	2	0.00	124	0.22	304	11	0.02	445	0.78	354	30	0.05	1415	2.49
253	3	0.01	127	0.22	305	11	0.02	456	0.80	355	19	0.03	1434	2.53
254	5	0.01	132	0.23	306	16	0.03	472	0.83	356	30	0.05	1464	2.58
256	3	0.01	135	0.24	307	19	0.03	491	0.87	357	39	0.07	1503	2.65
257	3	0.01	138	0.24	308	15	0.03	506	0.89	358	32	0.06	1535	2.71
258	6	0.01	144	0.25	309	8	0.01	514	0.91	359	29	0.05	1564	2.76
259	7	0.01	151	0.27	310	13	0.02	527	0.93	360	40	0.07	1604	2.83
260	3	0.01	154	0.27	311	6	0.01	533	0.94	361	43	0.08	1647	2.90
261	5	0.01	159	0.28	312	12	0.02	545	0.96	362	48	0.08	1695	2.99
263	4	0.01	163	0.29	313	13	0.02	558	0.98	363	32	0.06	1727	3.04
264	6	0.01	169	0.30	314	15	0.03	573	1.01	364	35	0.06	1762	3.11
265	4	0.01	173	0.30	315	16	0.03	589	1.04	365	49	0.09	1811	3.19
266	2	0.00	175	0.31	316	11	0.02	600	1.06	366	47	0.08	1858	3.27
267	6	0.01	181	0.32	317	7	0.01	607	1.07	367	40	0.07	1898	3.35
268	2	0.00	183	0.32	318	14	0.02	621	1.09	368	46	0.08	1944	3.43
269	3	0.01	186	0.33	319	12	0.02	633	1.12	369	56	0.10	2000	3.53
270	7	0.01	193	0.34	320	12	0.02	645	1.14	370	46	0.08	2046	3.61
271	4	0.01	197	0.35	321	22	0.04	667	1.18	371	42	0.07	2088	3.68
272	8	0.01	205	0.36	322	16	0.03	683	1.20	372	51	0.09	2139	3.77
273	6	0.01	211	0.37	323	19	0.03	702	1.24	373	45	0.08	2184	3.85

**Table 169. Mathematics 5 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
374	50	0.09	2234	3.94	424	127	0.22	6412	11.30	474	229	0.40	15103	26.62
375	47	0.08	2281	4.02	425	120	0.21	6532	11.51	475	238	0.42	15341	27.04
376	54	0.10	2335	4.12	426	141	0.25	6673	11.76	476	229	0.40	15570	27.44
377	63	0.11	2398	4.23	427	120	0.21	6793	11.97	477	232	0.41	15802	27.85
378	59	0.10	2457	4.33	428	145	0.26	6938	12.23	478	239	0.42	16041	28.27
379	54	0.10	2511	4.43	429	153	0.27	7091	12.50	479	255	0.45	16296	28.72
380	48	0.08	2559	4.51	430	150	0.26	7241	12.76	480	240	0.42	16536	29.15
381	65	0.11	2624	4.62	431	113	0.20	7354	12.96	481	263	0.46	16799	29.61
382	55	0.10	2679	4.72	432	125	0.22	7479	13.18	482	276	0.49	17075	30.10
383	56	0.10	2735	4.82	433	137	0.24	7616	13.42	483	237	0.42	17312	30.51
384	61	0.11	2796	4.93	434	156	0.27	7772	13.70	484	227	0.40	17539	30.91
385	58	0.10	2854	5.03	435	131	0.23	7903	13.93	485	262	0.46	17801	31.38
386	69	0.12	2923	5.15	436	145	0.26	8048	14.18	486	226	0.40	18027	31.77
387	66	0.12	2989	5.27	437	141	0.25	8189	14.43	487	221	0.39	18248	32.16
388	58	0.10	3047	5.37	438	136	0.24	8325	14.67	488	267	0.47	18515	32.63
389	64	0.11	3111	5.48	439	185	0.33	8510	15.00	489	274	0.48	18789	33.12
390	67	0.12	3178	5.60	440	155	0.27	8665	15.27	490	259	0.46	19048	33.57
391	80	0.14	3258	5.74	441	149	0.26	8814	15.54	491	266	0.47	19314	34.04
392	78	0.14	3336	5.88	442	159	0.28	8973	15.82	492	296	0.52	19610	34.56
393	74	0.13	3410	6.01	443	159	0.28	9132	16.10	493	249	0.44	19859	35.00
394	75	0.13	3485	6.14	444	151	0.27	9283	16.36	494	265	0.47	20124	35.47
395	72	0.13	3557	6.27	445	167	0.29	9450	16.66	495	241	0.42	20365	35.89
396	82	0.14	3639	6.41	446	166	0.29	9616	16.95	496	247	0.44	20612	36.33
397	65	0.11	3704	6.53	447	166	0.29	9782	17.24	497	299	0.53	20911	36.86
398	87	0.15	3791	6.68	448	165	0.29	9947	17.53	498	299	0.53	21210	37.38
399	56	0.10	3847	6.78	449	155	0.27	10102	17.81	499	238	0.42	21448	37.80
400	84	0.15	3931	6.93	450	172	0.30	10274	18.11	500	246	0.43	21694	38.24
401	75	0.13	4006	7.06	451	190	0.33	10464	18.44	501	302	0.53	21996	38.77
402	91	0.16	4097	7.22	452	179	0.32	10643	18.76	502	289	0.51	22285	39.28
403	97	0.17	4194	7.39	453	174	0.31	10817	19.07	503	273	0.48	22558	39.76
404	85	0.15	4279	7.54	454	170	0.30	10987	19.37	504	272	0.48	22830	40.24
405	68	0.12	4347	7.66	455	191	0.34	11178	19.70	505	289	0.51	23119	40.75
406	92	0.16	4439	7.82	456	203	0.36	11381	20.06	506	304	0.54	23423	41.28
407	91	0.16	4530	7.98	457	179	0.32	11560	20.38	507	287	0.51	23710	41.79
408	93	0.16	4623	8.15	458	202	0.36	11762	20.73	508	301	0.53	24011	42.32
409	95	0.17	4718	8.32	459	196	0.35	11958	21.08	509	270	0.48	24281	42.80
410	105	0.19	4823	8.50	460	194	0.34	12152	21.42	510	318	0.56	24599	43.36
411	115	0.20	4938	8.70	461	191	0.34	12343	21.76	511	300	0.53	24899	43.89
412	112	0.20	5050	8.90	462	178	0.31	12521	22.07	512	283	0.50	25182	44.38
413	87	0.15	5137	9.05	463	210	0.37	12731	22.44	513	294	0.52	25476	44.90
414	101	0.18	5238	9.23	464	205	0.36	12936	22.80	514	307	0.54	25783	45.44
415	103	0.18	5341	9.41	465	181	0.32	13117	23.12	515	280	0.49	26063	45.94
416	106	0.19	5447	9.60	466	206	0.36	13323	23.48	516	315	0.56	26378	46.49
417	123	0.22	5570	9.82	467	190	0.33	13513	23.82	517	264	0.47	26642	46.96
418	123	0.22	5693	10.03	468	242	0.43	13755	24.24	518	278	0.49	26920	47.45
419	102	0.18	5795	10.21	469	231	0.41	13986	24.65	519	288	0.51	27208	47.96
420	123	0.22	5918	10.43	470	233	0.41	14219	25.06	520	305	0.54	27513	48.49
421	127	0.22	6045	10.65	471	208	0.37	14427	25.43	521	300	0.53	27813	49.02
422	118	0.21	6163	10.86	472	218	0.38	14645	25.81	522	304	0.54	28117	49.56
423	122	0.22	6285	11.08	473	229	0.40	14874	26.22	523	322	0.57	28439	50.13

**Table 169. Mathematics 5 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
524	289	0.51	28728	50.63	571	224	0.39	42545	74.99	618	132	0.23	51620	90.98
525	315	0.56	29043	51.19	572	232	0.41	42777	75.40	619	120	0.21	51740	91.19
526	313	0.55	29356	51.74	573	276	0.49	43053	75.88	620	138	0.24	51878	91.44
527	315	0.56	29671	52.30	574	238	0.42	43291	76.30	621	121	0.21	51999	91.65
528	290	0.51	29961	52.81	575	237	0.42	43528	76.72	622	116	0.20	52115	91.86
529	333	0.59	30294	53.39	576	249	0.44	43777	77.16	623	118	0.21	52233	92.06
530	316	0.56	30610	53.95	577	264	0.47	44041	77.62	624	111	0.20	52344	92.26
531	317	0.56	30927	54.51	578	221	0.39	44262	78.01	625	99	0.17	52443	92.43
532	287	0.51	31214	55.02	579	251	0.44	44513	78.46	626	114	0.20	52557	92.63
533	312	0.55	31526	55.57	580	238	0.42	44751	78.88	627	123	0.22	52680	92.85
534	339	0.60	31865	56.16	581	234	0.41	44985	79.29	628	97	0.17	52777	93.02
535	345	0.61	32210	56.77	582	233	0.41	45218	79.70	629	119	0.21	52896	93.23
536	289	0.51	32499	57.28	583	224	0.39	45442	80.09	630	96	0.17	52992	93.40
537	322	0.57	32821	57.85	584	212	0.37	45654	80.47	631	116	0.20	53108	93.61
538	292	0.51	33113	58.36	585	218	0.38	45872	80.85	632	100	0.18	53208	93.78
539	299	0.53	33412	58.89	586	228	0.40	46100	81.25	633	90	0.16	53298	93.94
540	324	0.57	33736	59.46	587	195	0.34	46295	81.60	634	105	0.19	53403	94.13
541	311	0.55	34047	60.01	588	212	0.37	46507	81.97	635	78	0.14	53481	94.26
542	290	0.51	34337	60.52	589	172	0.30	46679	82.27	636	95	0.17	53576	94.43
543	310	0.55	34647	61.07	590	202	0.36	46881	82.63	637	93	0.16	53669	94.59
544	305	0.54	34952	61.60	591	191	0.34	47072	82.97	638	92	0.16	53761	94.76
545	298	0.53	35250	62.13	592	201	0.35	47273	83.32	639	86	0.15	53847	94.91
546	294	0.52	35544	62.65	593	219	0.39	47492	83.71	640	72	0.13	53919	95.03
547	296	0.52	35840	63.17	594	189	0.33	47681	84.04	641	84	0.15	54003	95.18
548	302	0.53	36142	63.70	595	204	0.36	47885	84.40	642	70	0.12	54073	95.31
549	287	0.51	36429	64.21	596	180	0.32	48065	84.72	643	64	0.11	54137	95.42
550	307	0.54	36736	64.75	597	203	0.36	48268	85.07	644	75	0.13	54212	95.55
551	319	0.56	37055	65.31	598	172	0.30	48440	85.38	645	62	0.11	54274	95.66
552	282	0.50	37337	65.81	599	186	0.33	48626	85.71	646	69	0.12	54343	95.78
553	286	0.50	37623	66.31	600	198	0.35	48824	86.05	647	73	0.13	54416	95.91
554	309	0.54	37932	66.86	601	167	0.29	48991	86.35	648	85	0.15	54501	96.06
555	292	0.51	38224	67.37	602	181	0.32	49172	86.67	649	63	0.11	54564	96.17
556	288	0.51	38512	67.88	603	165	0.29	49337	86.96	650	55	0.10	54619	96.27
557	292	0.51	38804	68.39	604	172	0.30	49509	87.26	651	57	0.10	54676	96.37
558	258	0.45	39062	68.85	605	178	0.31	49687	87.58	652	43	0.08	54719	96.44
559	267	0.47	39329	69.32	606	163	0.29	49850	87.86	653	48	0.08	54767	96.53
560	285	0.50	39614	69.82	607	159	0.28	50009	88.14	654	50	0.09	54817	96.62
561	284	0.50	39898	70.32	608	169	0.30	50178	88.44	655	51	0.09	54868	96.71
562	276	0.49	40174	70.81	609	145	0.26	50323	88.70	656	40	0.07	54908	96.78
563	266	0.47	40440	71.28	610	143	0.25	50466	88.95	657	51	0.09	54959	96.87
564	266	0.47	40706	71.75	611	122	0.22	50588	89.16	658	59	0.10	55018	96.97
565	272	0.48	40978	72.23	612	174	0.31	50762	89.47	659	47	0.08	55065	97.05
566	248	0.44	41226	72.66	613	158	0.28	50920	89.75	660	51	0.09	55116	97.14
567	296	0.52	41522	73.18	614	160	0.28	51080	90.03	661	46	0.08	55162	97.23
568	239	0.42	41761	73.61	615	142	0.25	51222	90.28	662	46	0.08	55208	97.31
569	280	0.49	42041	74.10	616	132	0.23	51354	90.51	663	29	0.05	55237	97.36
570	280	0.49	42321	74.59	617	134	0.24	51488	90.75	664	49	0.09	55286	97.44

**Table 169. Mathematics 5 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
665	33	0.06	55319	97.50	715	15	0.03	56379	99.37
666	41	0.07	55360	97.57	716	5	0.01	56384	99.38
667	50	0.09	55410	97.66	717	14	0.02	56398	99.40
668	26	0.05	55436	97.71	718	3	0.01	56401	99.41
669	36	0.06	55472	97.77	719	4	0.01	56405	99.42
670	25	0.04	55497	97.82	720	5	0.01	56410	99.43
671	35	0.06	55532	97.88	721	13	0.02	56423	99.45
672	29	0.05	55561	97.93	722	8	0.01	56431	99.46
673	29	0.05	55590	97.98	723	4	0.01	56435	99.47
674	31	0.05	55621	98.03	724	7	0.01	56442	99.48
675	28	0.05	55649	98.08	725	5	0.01	56447	99.49
676	31	0.05	55680	98.14	726	3	0.01	56450	99.50
677	30	0.05	55710	98.19	727	7	0.01	56457	99.51
678	23	0.04	55733	98.23	728	17	0.03	56474	99.54
679	22	0.04	55755	98.27	729	4	0.01	56478	99.55
680	33	0.06	55788	98.33	730	4	0.01	56482	99.55
681	33	0.06	55821	98.39	731	6	0.01	56488	99.56
682	26	0.05	55847	98.43	732	4	0.01	56492	99.57
683	24	0.04	55871	98.48	733	5	0.01	56497	99.58
684	24	0.04	55895	98.52	734	10	0.02	56507	99.60
685	20	0.04	55915	98.55	735	2	0.00	56509	99.60
686	12	0.02	55927	98.57	737	2	0.00	56511	99.60
687	21	0.04	55948	98.61	738	6	0.01	56517	99.61
688	22	0.04	55970	98.65	739	3	0.01	56520	99.62
689	17	0.03	55987	98.68	740	4	0.01	56524	99.63
690	17	0.03	56004	98.71	741	11	0.02	56535	99.65
691	17	0.03	56021	98.74	742	5	0.01	56540	99.65
692	19	0.03	56040	98.77	745	8	0.01	56548	99.67
693	33	0.06	56073	98.83	746	7	0.01	56555	99.68
694	20	0.04	56093	98.87	748	2	0.00	56557	99.68
695	13	0.02	56106	98.89	749	12	0.02	56569	99.71
696	20	0.04	56126	98.92	750	1	0.00	56570	99.71
697	7	0.01	56133	98.94	755	6	0.01	56576	99.72
698	17	0.03	56150	98.97	757	5	0.01	56581	99.73
699	11	0.02	56161	98.99	760	1	0.00	56582	99.73
700	16	0.03	56177	99.01	766	11	0.02	56593	99.75
701	20	0.04	56197	99.05	769	5	0.01	56598	99.76
702	6	0.01	56203	99.06	772	24	0.04	56622	99.80
703	12	0.02	56215	99.08	774	1	0.00	56623	99.80
704	16	0.03	56231	99.11	775	6	0.01	56629	99.81
705	13	0.02	56244	99.13	777	1	0.00	56630	99.81
706	6	0.01	56250	99.14	778	10	0.02	56640	99.83
707	11	0.02	56261	99.16	779	6	0.01	56646	99.84
708	18	0.03	56279	99.19	780	13	0.02	56659	99.86
709	18	0.03	56297	99.23	786	14	0.02	56673	99.89
710	17	0.03	56314	99.26	791	2	0.00	56675	99.89
711	14	0.02	56328	99.28	800	61	0.11	56736	100.00
712	16	0.03	56344	99.31					
713	16	0.03	56360	99.34					
714	4	0.01	56364	99.34					

**Table 170. Science 5 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	61	0.11	61	0.11	355	2	0.00	184	0.32	405	19	0.03	767	1.35
302	2	0.00	63	0.11	356	7	0.01	191	0.34	406	20	0.04	787	1.39
303	3	0.01	66	0.12	357	2	0.00	193	0.34	407	24	0.04	811	1.43
304	1	0.00	67	0.12	358	6	0.01	199	0.35	408	15	0.03	826	1.46
305	4	0.01	71	0.13	359	1	0.00	200	0.35	409	36	0.06	862	1.52
306	4	0.01	75	0.13	360	4	0.01	204	0.36	410	24	0.04	886	1.56
307	2	0.00	77	0.14	361	9	0.02	213	0.38	411	24	0.04	910	1.60
308	1	0.00	78	0.14	362	4	0.01	217	0.38	412	21	0.04	931	1.64
309	3	0.01	81	0.14	363	4	0.01	221	0.39	413	21	0.04	952	1.68
311	1	0.00	82	0.14	364	6	0.01	227	0.40	414	32	0.06	984	1.73
312	3	0.01	85	0.15	365	13	0.02	240	0.42	415	27	0.05	1011	1.78
316	2	0.00	87	0.15	366	9	0.02	249	0.44	416	21	0.04	1032	1.82
317	2	0.00	89	0.16	367	8	0.01	257	0.45	417	21	0.04	1053	1.86
318	1	0.00	90	0.16	368	11	0.02	268	0.47	418	29	0.05	1082	1.91
319	1	0.00	91	0.16	369	3	0.01	271	0.48	419	27	0.05	1109	1.95
320	1	0.00	92	0.16	370	14	0.02	285	0.50	420	41	0.07	1150	2.03
321	5	0.01	97	0.17	371	8	0.01	293	0.52	421	32	0.06	1182	2.08
322	1	0.00	98	0.17	372	9	0.02	302	0.53	422	34	0.06	1216	2.14
323	3	0.01	101	0.18	373	9	0.02	311	0.55	423	34	0.06	1250	2.20
324	1	0.00	102	0.18	374	6	0.01	317	0.56	424	45	0.08	1295	2.28
325	1	0.00	103	0.18	375	12	0.02	329	0.58	425	45	0.08	1340	2.36
326	2	0.00	105	0.19	376	7	0.01	336	0.59	426	48	0.08	1388	2.45
327	6	0.01	111	0.20	377	5	0.01	341	0.60	427	36	0.06	1424	2.51
328	2	0.00	113	0.20	378	12	0.02	353	0.62	428	45	0.08	1469	2.59
329	5	0.01	118	0.21	379	10	0.02	363	0.64	429	36	0.06	1505	2.65
330	2	0.00	120	0.21	380	10	0.02	373	0.66	430	43	0.08	1548	2.73
331	1	0.00	121	0.21	381	13	0.02	386	0.68	431	38	0.07	1586	2.80
332	2	0.00	123	0.22	382	9	0.02	395	0.70	432	60	0.11	1646	2.90
333	1	0.00	124	0.22	383	4	0.01	399	0.70	433	38	0.07	1684	2.97
334	7	0.01	131	0.23	384	14	0.02	413	0.73	434	56	0.10	1740	3.07
335	1	0.00	132	0.23	385	9	0.02	422	0.74	435	46	0.08	1786	3.15
336	1	0.00	133	0.23	386	15	0.03	437	0.77	436	52	0.09	1838	3.24
337	2	0.00	135	0.24	387	18	0.03	455	0.80	437	48	0.08	1886	3.32
338	5	0.01	140	0.25	388	15	0.03	470	0.83	438	54	0.10	1940	3.42
339	3	0.01	143	0.25	389	15	0.03	485	0.85	439	56	0.10	1996	3.52
340	2	0.00	145	0.26	390	14	0.02	499	0.88	440	61	0.11	2057	3.63
341	2	0.00	147	0.26	391	18	0.03	517	0.91	441	52	0.09	2109	3.72
342	3	0.01	150	0.26	392	10	0.02	527	0.93	442	64	0.11	2173	3.83
343	1	0.00	151	0.27	393	16	0.03	543	0.96	443	52	0.09	2225	3.92
344	1	0.00	152	0.27	394	17	0.03	560	0.99	444	66	0.12	2291	4.04
345	6	0.01	158	0.28	395	16	0.03	576	1.02	445	69	0.12	2360	4.16
346	1	0.00	159	0.28	396	20	0.04	596	1.05	446	59	0.10	2419	4.26
347	4	0.01	163	0.29	397	21	0.04	617	1.09	447	62	0.11	2481	4.37
348	3	0.01	166	0.29	398	17	0.03	634	1.12	448	55	0.10	2536	4.47
349	1	0.00	167	0.29	399	16	0.03	650	1.15	449	62	0.11	2598	4.58
350	1	0.00	168	0.30	400	21	0.04	671	1.18	450	69	0.12	2667	4.70
351	1	0.00	169	0.30	401	15	0.03	686	1.21	451	81	0.14	2748	4.84
352	6	0.01	175	0.31	402	27	0.05	713	1.26	452	62	0.11	2810	4.95
353	3	0.01	178	0.31	403	18	0.03	731	1.29	453	83	0.15	2893	5.10
354	4	0.01	182	0.32	404	17	0.03	748	1.32	454	87	0.15	2980	5.25

**Table 170. Science 5 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
455	73	0.13	3053	5.38	505	264	0.47	10690	18.84	555	395	0.70	27492	48.46
456	83	0.15	3136	5.53	506	218	0.38	10908	19.23	556	455	0.80	27947	49.26
457	94	0.17	3230	5.69	507	241	0.42	11149	19.65	557	426	0.75	28373	50.01
458	74	0.13	3304	5.82	508	219	0.39	11368	20.04	558	391	0.69	28764	50.70
459	100	0.18	3404	6.00	509	263	0.46	11631	20.50	559	408	0.72	29172	51.42
460	97	0.17	3501	6.17	510	225	0.40	11856	20.90	560	408	0.72	29580	52.14
461	95	0.17	3596	6.34	511	270	0.48	12126	21.37	561	452	0.80	30032	52.93
462	115	0.20	3711	6.54	512	266	0.47	12392	21.84	562	401	0.71	30433	53.64
463	124	0.22	3835	6.76	513	237	0.42	12629	22.26	563	440	0.78	30873	54.41
464	104	0.18	3939	6.94	514	258	0.45	12887	22.71	564	431	0.76	31304	55.17
465	90	0.16	4029	7.10	515	296	0.52	13183	23.24	565	421	0.74	31725	55.92
466	105	0.19	4134	7.29	516	293	0.52	13476	23.75	566	385	0.68	32110	56.59
467	115	0.20	4249	7.49	517	280	0.49	13756	24.25	567	415	0.73	32525	57.33
468	108	0.19	4357	7.68	518	307	0.54	14063	24.79	568	437	0.77	32962	58.10
469	108	0.19	4465	7.87	519	289	0.51	14352	25.30	569	412	0.73	33374	58.82
470	123	0.22	4588	8.09	520	309	0.54	14661	25.84	570	438	0.77	33812	59.59
471	131	0.23	4719	8.32	521	309	0.54	14970	26.38	571	414	0.73	34226	60.32
472	117	0.21	4836	8.52	522	338	0.60	15308	26.98	572	410	0.72	34636	61.05
473	113	0.20	4949	8.72	523	315	0.56	15623	27.54	573	385	0.68	35021	61.73
474	119	0.21	5068	8.93	524	321	0.57	15944	28.10	574	420	0.74	35441	62.47
475	136	0.24	5204	9.17	525	300	0.53	16244	28.63	575	423	0.75	35864	63.21
476	151	0.27	5355	9.44	526	328	0.58	16572	29.21	576	393	0.69	36257	63.90
477	127	0.22	5482	9.66	527	327	0.58	16899	29.78	577	421	0.74	36678	64.65
478	152	0.27	5634	9.93	528	311	0.55	17210	30.33	578	422	0.74	37100	65.39
479	152	0.27	5786	10.20	529	331	0.58	17541	30.92	579	469	0.83	37569	66.22
480	140	0.25	5926	10.44	530	339	0.60	17880	31.51	580	423	0.75	37992	66.96
481	152	0.27	6078	10.71	531	345	0.61	18225	32.12	581	383	0.68	38375	67.64
482	136	0.24	6214	10.95	532	362	0.64	18587	32.76	582	410	0.72	38785	68.36
483	160	0.28	6374	11.23	533	361	0.64	18948	33.40	583	372	0.66	39157	69.01
484	174	0.31	6548	11.54	534	364	0.64	19312	34.04	584	425	0.75	39582	69.76
485	145	0.26	6693	11.80	535	345	0.61	19657	34.65	585	395	0.70	39977	70.46
486	159	0.28	6852	12.08	536	347	0.61	20004	35.26	586	379	0.67	40356	71.13
487	174	0.31	7026	12.38	537	382	0.67	20386	35.93	587	416	0.73	40772	71.86
488	155	0.27	7181	12.66	538	390	0.69	20776	36.62	588	370	0.65	41142	72.51
489	168	0.30	7349	12.95	539	405	0.71	21181	37.33	589	381	0.67	41523	73.19
490	179	0.32	7528	13.27	540	376	0.66	21557	37.99	590	374	0.66	41897	73.84
491	183	0.32	7711	13.59	541	366	0.65	21923	38.64	591	379	0.67	42276	74.51
492	202	0.36	7913	13.95	542	376	0.66	22299	39.30	592	388	0.68	42664	75.20
493	181	0.32	8094	14.27	543	390	0.69	22689	39.99	593	357	0.63	43021	75.83
494	188	0.33	8282	14.60	544	359	0.63	23048	40.62	594	377	0.66	43398	76.49
495	198	0.35	8480	14.95	545	368	0.65	23416	41.27	595	374	0.66	43772	77.15
496	206	0.36	8686	15.31	546	402	0.71	23818	41.98	596	348	0.61	44120	77.76
497	205	0.36	8891	15.67	547	426	0.75	24244	42.73	597	362	0.64	44482	78.40
498	206	0.36	9097	16.03	548	411	0.72	24655	43.45	598	375	0.66	44857	79.06
499	230	0.41	9327	16.44	549	418	0.74	25073	44.19	599	317	0.56	45174	79.62
500	184	0.32	9511	16.76	550	406	0.72	25479	44.91	600	333	0.59	45507	80.21
501	219	0.39	9730	17.15	551	423	0.75	25902	45.65	601	298	0.53	45805	80.73
502	206	0.36	9936	17.51	552	387	0.68	26289	46.33	602	305	0.54	46110	81.27
503	250	0.44	10186	17.95	553	413	0.73	26702	47.06	603	312	0.55	46422	81.82
504	240	0.42	10426	18.38	554	395	0.70	27097	47.76	604	323	0.57	46745	82.39

**Table 170. Science 5 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
605	294	0.52	47039	82.91	655	60	0.11	55343	97.54	705	6	0.01	56607	99.77
606	278	0.49	47317	83.40	656	62	0.11	55405	97.65	706	7	0.01	56614	99.78
607	293	0.52	47610	83.91	657	56	0.10	55461	97.75	707	3	0.01	56617	99.79
608	259	0.46	47869	84.37	658	46	0.08	55507	97.83	708	4	0.01	56621	99.80
609	293	0.52	48162	84.89	659	54	0.10	55561	97.93	709	4	0.01	56625	99.80
610	257	0.45	48419	85.34	660	62	0.11	55623	98.04	710	7	0.01	56632	99.81
611	250	0.44	48669	85.78	661	48	0.08	55671	98.12	711	5	0.01	56637	99.82
612	260	0.46	48929	86.24	662	52	0.09	55723	98.21	712	2	0.00	56639	99.83
613	256	0.45	49185	86.69	663	42	0.07	55765	98.29	713	8	0.01	56647	99.84
614	220	0.39	49405	87.08	664	32	0.06	55797	98.34	714	4	0.01	56651	99.85
615	222	0.39	49627	87.47	665	37	0.07	55834	98.41	715	3	0.01	56654	99.85
616	231	0.41	49858	87.88	666	43	0.08	55877	98.48	716	5	0.01	56659	99.86
617	262	0.46	50120	88.34	667	40	0.07	55917	98.55	717	10	0.02	56669	99.88
618	233	0.41	50353	88.75	668	37	0.07	55954	98.62	719	3	0.01	56672	99.89
619	208	0.37	50561	89.11	669	36	0.06	55990	98.68	720	4	0.01	56676	99.89
620	229	0.40	50790	89.52	670	44	0.08	56034	98.76	721	1	0.00	56677	99.89
621	189	0.33	50979	89.85	671	41	0.07	56075	98.83	724	2	0.00	56679	99.90
622	202	0.36	51181	90.21	672	34	0.06	56109	98.89	725	1	0.00	56680	99.90
623	187	0.33	51368	90.54	673	25	0.04	56134	98.94	728	5	0.01	56685	99.91
624	206	0.36	51574	90.90	674	34	0.06	56168	99.00	729	2	0.00	56687	99.91
625	197	0.35	51771	91.25	675	19	0.03	56187	99.03	730	1	0.00	56688	99.91
626	189	0.33	51960	91.58	676	32	0.06	56219	99.09	732	4	0.01	56692	99.92
627	169	0.30	52129	91.88	677	29	0.05	56248	99.14	734	5	0.01	56697	99.93
628	163	0.29	52292	92.17	678	26	0.05	56274	99.18	736	2	0.00	56699	99.93
629	178	0.31	52470	92.48	679	12	0.02	56286	99.21	738	6	0.01	56705	99.94
630	171	0.30	52641	92.78	680	32	0.06	56318	99.26	744	2	0.00	56707	99.95
631	161	0.28	52802	93.06	681	20	0.04	56338	99.30	746	2	0.00	56709	99.95
632	147	0.26	52949	93.32	682	16	0.03	56354	99.32	748	7	0.01	56716	99.96
633	173	0.30	53122	93.63	683	21	0.04	56375	99.36	750	1	0.00	56717	99.96
634	143	0.25	53265	93.88	684	16	0.03	56391	99.39	751	1	0.00	56718	99.97
635	172	0.30	53437	94.18	685	18	0.03	56409	99.42	765	2	0.00	56720	99.97
636	122	0.22	53559	94.40	686	14	0.02	56423	99.45	766	1	0.00	56721	99.97
637	131	0.23	53690	94.63	687	15	0.03	56438	99.47	772	1	0.00	56722	99.97
638	130	0.23	53820	94.86	688	15	0.03	56453	99.50	777	2	0.00	56724	99.98
639	123	0.22	53943	95.08	689	13	0.02	56466	99.52	781	1	0.00	56725	99.98
640	117	0.21	54060	95.28	690	17	0.03	56483	99.55	785	5	0.01	56730	99.99
641	100	0.18	54160	95.46	691	11	0.02	56494	99.57	790	7	0.01	56737	100.00
642	116	0.20	54276	95.66	692	11	0.02	56505	99.59					
643	96	0.17	54372	95.83	693	8	0.01	56513	99.61					
644	92	0.16	54464	95.99	694	17	0.03	56530	99.64					
645	94	0.17	54558	96.16	695	9	0.02	56539	99.65					
646	103	0.18	54661	96.34	696	6	0.01	56545	99.66					
647	82	0.14	54743	96.49	697	14	0.02	56559	99.69					
648	93	0.16	54836	96.65	698	6	0.01	56565	99.70					
649	75	0.13	54911	96.78	699	7	0.01	56572	99.71					
650	82	0.14	54993	96.93	700	7	0.01	56579	99.72					
651	70	0.12	55063	97.05	701	8	0.01	56587	99.74					
652	100	0.18	55163	97.23	702	3	0.01	56590	99.74					
653	57	0.10	55220	97.33	703	4	0.01	56594	99.75					
654	63	0.11	55283	97.44	704	7	0.01	56601	99.76					



**Table 171. Reading 6 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
260	403	0.72	403	0.72	335	1	0.00	474	0.84	390	4	0.01	609	1.08
263	1	0.00	404	0.72	336	1	0.00	475	0.84	391	1	0.00	610	1.08
265	2	0.00	406	0.72	337	1	0.00	476	0.85	392	7	0.01	617	1.10
266	2	0.00	408	0.72	338	1	0.00	477	0.85	393	4	0.01	621	1.10
267	1	0.00	409	0.73	341	1	0.00	478	0.85	394	5	0.01	626	1.11
268	1	0.00	410	0.73	342	2	0.00	480	0.85	395	11	0.02	637	1.13
269	1	0.00	411	0.73	343	2	0.00	482	0.86	396	6	0.01	643	1.14
271	1	0.00	412	0.73	344	1	0.00	483	0.86	397	8	0.01	651	1.16
273	1	0.00	413	0.73	345	2	0.00	485	0.86	398	2	0.00	653	1.16
275	2	0.00	415	0.74	346	1	0.00	486	0.86	399	3	0.01	656	1.16
276	2	0.00	417	0.74	348	1	0.00	487	0.86	400	4	0.01	660	1.17
277	1	0.00	418	0.74	349	2	0.00	489	0.87	401	3	0.01	663	1.18
278	1	0.00	419	0.74	350	2	0.00	491	0.87	402	6	0.01	669	1.19
281	1	0.00	420	0.75	351	1	0.00	492	0.87	403	3	0.01	672	1.19
282	1	0.00	421	0.75	352	3	0.01	495	0.88	404	3	0.01	675	1.20
284	2	0.00	423	0.75	353	1	0.00	496	0.88	405	3	0.01	678	1.20
285	1	0.00	424	0.75	354	4	0.01	500	0.89	406	3	0.01	681	1.21
287	2	0.00	426	0.76	356	2	0.00	502	0.89	407	6	0.01	687	1.22
290	2	0.00	428	0.76	357	1	0.00	503	0.89	408	5	0.01	692	1.23
291	1	0.00	429	0.76	358	1	0.00	504	0.89	409	7	0.01	699	1.24
292	2	0.00	431	0.77	359	1	0.00	505	0.90	410	8	0.01	707	1.26
294	2	0.00	433	0.77	360	1	0.00	506	0.90	411	11	0.02	718	1.27
295	1	0.00	434	0.77	361	5	0.01	511	0.91	412	5	0.01	723	1.28
296	2	0.00	436	0.77	362	6	0.01	517	0.92	413	7	0.01	730	1.30
298	1	0.00	437	0.78	363	2	0.00	519	0.92	414	9	0.02	739	1.31
300	1	0.00	438	0.78	364	2	0.00	521	0.93	415	10	0.02	749	1.33
302	2	0.00	440	0.78	365	4	0.01	525	0.93	416	9	0.02	758	1.35
303	2	0.00	442	0.78	366	2	0.00	527	0.94	417	3	0.01	761	1.35
304	1	0.00	443	0.79	367	1	0.00	528	0.94	418	9	0.02	770	1.37
306	1	0.00	444	0.79	368	6	0.01	534	0.95	419	7	0.01	777	1.38
307	1	0.00	445	0.79	369	7	0.01	541	0.96	420	7	0.01	784	1.39
308	2	0.00	447	0.79	370	1	0.00	542	0.96	421	10	0.02	794	1.41
309	2	0.00	449	0.80	371	7	0.01	549	0.97	422	8	0.01	802	1.42
312	1	0.00	450	0.80	372	1	0.00	550	0.98	423	11	0.02	813	1.44
313	1	0.00	451	0.80	373	3	0.01	553	0.98	424	9	0.02	822	1.46
317	1	0.00	452	0.80	374	2	0.00	555	0.99	425	17	0.03	839	1.49
319	1	0.00	453	0.80	375	3	0.01	558	0.99	426	8	0.01	847	1.50
320	1	0.00	454	0.81	377	3	0.01	561	1.00	427	10	0.02	857	1.52
321	1	0.00	455	0.81	378	1	0.00	562	1.00	428	10	0.02	867	1.54
322	3	0.01	458	0.81	379	3	0.01	565	1.00	429	12	0.02	879	1.56
323	2	0.00	460	0.82	380	2	0.00	567	1.01	430	13	0.02	892	1.58
324	1	0.00	461	0.82	381	4	0.01	571	1.01	431	15	0.03	907	1.61
325	1	0.00	462	0.82	382	4	0.01	575	1.02	432	12	0.02	919	1.63
327	1	0.00	463	0.82	383	3	0.01	578	1.03	433	8	0.01	927	1.65
328	2	0.00	465	0.83	384	4	0.01	582	1.03	434	14	0.02	941	1.67
329	1	0.00	466	0.83	385	2	0.00	584	1.04	435	8	0.01	949	1.69
330	2	0.00	468	0.83	386	3	0.01	587	1.04	436	11	0.02	960	1.70
331	1	0.00	469	0.83	387	7	0.01	594	1.05	437	15	0.03	975	1.73
332	3	0.01	472	0.84	388	6	0.01	600	1.07	438	15	0.03	990	1.76
333	1	0.00	473	0.84	389	5	0.01	605	1.07	439	8	0.01	998	1.77

**Table 171. Reading 6 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
440	8	0.01	1006	1.79	490	41	0.07	2303	4.09	540	106	0.19	5607	9.96
441	14	0.02	1020	1.81	491	38	0.07	2341	4.16	541	103	0.18	5710	10.14
442	14	0.02	1034	1.84	492	31	0.06	2372	4.21	542	106	0.19	5816	10.33
443	14	0.02	1048	1.86	493	56	0.10	2428	4.31	543	95	0.17	5911	10.50
444	17	0.03	1065	1.89	494	43	0.08	2471	4.39	544	106	0.19	6017	10.68
445	21	0.04	1086	1.93	495	35	0.06	2506	4.45	545	123	0.22	6140	10.90
446	15	0.03	1101	1.95	496	48	0.09	2554	4.53	546	110	0.20	6250	11.10
447	14	0.02	1115	1.98	497	41	0.07	2595	4.61	547	104	0.18	6354	11.28
448	9	0.02	1124	2.00	498	51	0.09	2646	4.70	548	113	0.20	6467	11.48
449	18	0.03	1142	2.03	499	42	0.07	2688	4.77	549	121	0.21	6588	11.70
450	13	0.02	1155	2.05	500	45	0.08	2733	4.85	550	132	0.23	6720	11.93
451	15	0.03	1170	2.08	501	56	0.10	2789	4.95	551	125	0.22	6845	12.15
452	20	0.04	1190	2.11	502	49	0.09	2838	5.04	552	120	0.21	6965	12.37
453	19	0.03	1209	2.15	503	61	0.11	2899	5.15	553	146	0.26	7111	12.63
454	22	0.04	1231	2.19	504	48	0.09	2947	5.23	554	140	0.25	7251	12.87
455	21	0.04	1252	2.22	505	54	0.10	3001	5.33	555	160	0.28	7411	13.16
456	20	0.04	1272	2.26	506	70	0.12	3071	5.45	556	133	0.24	7544	13.39
457	19	0.03	1291	2.29	507	51	0.09	3122	5.54	557	125	0.22	7669	13.62
458	26	0.05	1317	2.34	508	54	0.10	3176	5.64	558	143	0.25	7812	13.87
459	24	0.04	1341	2.38	509	47	0.08	3223	5.72	559	136	0.24	7948	14.11
460	31	0.06	1372	2.44	510	62	0.11	3285	5.83	560	151	0.27	8099	14.38
461	25	0.04	1397	2.48	511	50	0.09	3335	5.92	561	142	0.25	8241	14.63
462	23	0.04	1420	2.52	512	67	0.12	3402	6.04	562	152	0.27	8393	14.90
463	26	0.05	1446	2.57	513	74	0.13	3476	6.17	563	144	0.26	8537	15.16
464	28	0.05	1474	2.62	514	67	0.12	3543	6.29	564	179	0.32	8716	15.48
465	27	0.05	1501	2.67	515	63	0.11	3606	6.40	565	144	0.26	8860	15.73
466	24	0.04	1525	2.71	516	63	0.11	3669	6.51	566	174	0.31	9034	16.04
467	30	0.05	1555	2.76	517	60	0.11	3729	6.62	567	186	0.33	9220	16.37
468	38	0.07	1593	2.83	518	71	0.13	3800	6.75	568	177	0.31	9397	16.69
469	28	0.05	1621	2.88	519	66	0.12	3866	6.86	569	173	0.31	9570	16.99
470	23	0.04	1644	2.92	520	61	0.11	3927	6.97	570	188	0.33	9758	17.33
471	34	0.06	1678	2.98	521	62	0.11	3989	7.08	571	182	0.32	9940	17.65
472	18	0.03	1696	3.01	522	74	0.13	4063	7.21	572	188	0.33	10128	17.98
473	24	0.04	1720	3.05	523	63	0.11	4126	7.33	573	162	0.29	10290	18.27
474	29	0.05	1749	3.11	524	78	0.14	4204	7.46	574	181	0.32	10471	18.59
475	45	0.08	1794	3.19	525	71	0.13	4275	7.59	575	207	0.37	10678	18.96
476	24	0.04	1818	3.23	526	79	0.14	4354	7.73	576	199	0.35	10877	19.31
477	25	0.04	1843	3.27	527	82	0.15	4436	7.88	577	214	0.38	11091	19.69
478	40	0.07	1883	3.34	528	84	0.15	4520	8.03	578	206	0.37	11297	20.06
479	18	0.03	1901	3.38	529	86	0.15	4606	8.18	579	234	0.42	11531	20.47
480	23	0.04	1924	3.42	530	72	0.13	4678	8.31	580	236	0.42	11767	20.89
481	31	0.06	1955	3.47	531	73	0.13	4751	8.44	581	198	0.35	11965	21.24
482	33	0.06	1988	3.53	532	86	0.15	4837	8.59	582	198	0.35	12163	21.60
483	32	0.06	2020	3.59	533	79	0.14	4916	8.73	583	249	0.44	12412	22.04
484	36	0.06	2056	3.65	534	78	0.14	4994	8.87	584	233	0.41	12645	22.45
485	37	0.07	2093	3.72	535	103	0.18	5097	9.05	585	261	0.46	12906	22.92
486	34	0.06	2127	3.78	536	103	0.18	5200	9.23	586	236	0.42	13142	23.33
487	47	0.08	2174	3.86	537	86	0.15	5286	9.39	587	228	0.40	13370	23.74
488	35	0.06	2209	3.92	538	97	0.17	5383	9.56	588	245	0.44	13615	24.17
489	53	0.09	2262	4.02	539	118	0.21	5501	9.77	589	253	0.45	13868	24.62

**Table 171. Reading 6 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
590	252	0.45	14120	25.07	637	388	0.69	29889	53.07	684	271	0.48	46958	83.38
591	251	0.45	14371	25.52	638	385	0.68	30274	53.75	685	271	0.48	47229	83.86
592	246	0.44	14617	25.95	639	400	0.71	30674	54.46	686	243	0.43	47472	84.29
593	240	0.43	14857	26.38	640	400	0.71	31074	55.17	687	280	0.50	47752	84.79
594	268	0.48	15125	26.86	641	417	0.74	31491	55.91	688	268	0.48	48020	85.26
595	265	0.47	15390	27.33	642	378	0.67	31869	56.59	689	255	0.45	48275	85.72
596	266	0.47	15656	27.80	643	412	0.73	32281	57.32	690	236	0.42	48511	86.13
597	280	0.50	15936	28.30	644	412	0.73	32693	58.05	691	262	0.47	48773	86.60
598	307	0.55	16243	28.84	645	385	0.68	33078	58.73	692	253	0.45	49026	87.05
599	323	0.57	16566	29.41	646	403	0.72	33481	59.45	693	246	0.44	49272	87.49
600	270	0.48	16836	29.89	647	388	0.69	33869	60.14	694	245	0.44	49517	87.92
601	276	0.49	17112	30.38	648	382	0.68	34251	60.81	695	227	0.40	49744	88.32
602	293	0.52	17405	30.90	649	394	0.70	34645	61.51	696	221	0.39	49965	88.72
603	296	0.53	17701	31.43	650	390	0.69	35035	62.21	697	243	0.43	50208	89.15
604	317	0.56	18018	31.99	651	427	0.76	35462	62.97	698	210	0.37	50418	89.52
605	326	0.58	18344	32.57	652	417	0.74	35879	63.71	699	182	0.32	50600	89.84
606	323	0.57	18667	33.14	653	361	0.64	36240	64.35	700	198	0.35	50798	90.20
607	338	0.60	19005	33.74	654	385	0.68	36625	65.03	701	192	0.34	50990	90.54
608	326	0.58	19331	34.32	655	371	0.66	36996	65.69	702	175	0.31	51165	90.85
609	334	0.59	19665	34.92	656	364	0.65	37360	66.34	703	208	0.37	51373	91.22
610	332	0.59	19997	35.51	657	380	0.67	37740	67.01	704	200	0.36	51573	91.57
611	350	0.62	20347	36.13	658	384	0.68	38124	67.69	705	188	0.33	51761	91.91
612	344	0.61	20691	36.74	659	362	0.64	38486	68.33	706	192	0.34	51953	92.25
613	318	0.56	21009	37.30	660	406	0.72	38892	69.06	707	166	0.29	52119	92.54
614	311	0.55	21320	37.86	661	377	0.67	39269	69.72	708	161	0.29	52280	92.83
615	342	0.61	21662	38.46	662	364	0.65	39633	70.37	709	178	0.32	52458	93.14
616	332	0.59	21994	39.05	663	401	0.71	40034	71.08	710	195	0.35	52653	93.49
617	382	0.68	22376	39.73	664	395	0.70	40429	71.78	711	155	0.28	52808	93.76
618	332	0.59	22708	40.32	665	366	0.65	40795	72.43	712	163	0.29	52971	94.05
619	355	0.63	23063	40.95	666	367	0.65	41162	73.09	713	145	0.26	53116	94.31
620	345	0.61	23408	41.56	667	387	0.69	41549	73.77	714	143	0.25	53259	94.56
621	398	0.71	23806	42.27	668	367	0.65	41916	74.42	715	138	0.25	53397	94.81
622	414	0.74	24220	43.00	669	369	0.66	42285	75.08	716	134	0.24	53531	95.05
623	346	0.61	24566	43.62	670	366	0.65	42651	75.73	717	125	0.22	53656	95.27
624	356	0.63	24922	44.25	671	329	0.58	42980	76.31	718	97	0.17	53753	95.44
625	334	0.59	25256	44.84	672	352	0.63	43332	76.94	719	118	0.21	53871	95.65
626	383	0.68	25639	45.52	673	324	0.58	43656	77.51	720	122	0.22	53993	95.87
627	390	0.69	26029	46.22	674	280	0.50	43936	78.01	721	108	0.19	54101	96.06
628	338	0.60	26367	46.82	675	306	0.54	44242	78.55	722	115	0.20	54216	96.26
629	379	0.67	26746	47.49	676	310	0.55	44552	79.11	723	92	0.16	54308	96.43
630	386	0.69	27132	48.17	677	305	0.54	44857	79.65	724	86	0.15	54394	96.58
631	382	0.68	27514	48.85	678	324	0.58	45181	80.22	725	84	0.15	54478	96.73
632	387	0.69	27901	49.54	679	324	0.58	45505	80.80	726	105	0.19	54583	96.92
633	387	0.69	28288	50.23	680	298	0.53	45803	81.33	727	91	0.16	54674	97.08
634	389	0.69	28677	50.92	681	312	0.55	46115	81.88	728	79	0.14	54753	97.22
635	441	0.78	29118	51.70	682	274	0.49	46389	82.37	729	80	0.14	54833	97.36
636	383	0.68	29501	52.38	683	298	0.53	46687	82.90	730	82	0.15	54915	97.51

**Table 171. Reading 6 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
731	81	0.14	54996	97.65	781	1	0.00	56261	99.90
732	73	0.13	55069	97.78	782	2	0.00	56263	99.90
733	75	0.13	55144	97.91	783	4	0.01	56267	99.91
734	63	0.11	55207	98.02	784	5	0.01	56272	99.91
735	65	0.12	55272	98.14	785	3	0.01	56275	99.92
736	61	0.11	55333	98.25	786	4	0.01	56279	99.93
737	40	0.07	55373	98.32	787	4	0.01	56283	99.93
738	49	0.09	55422	98.41	788	2	0.00	56285	99.94
739	60	0.11	55482	98.51	790	1	0.00	56286	99.94
740	52	0.09	55534	98.60	791	1	0.00	56287	99.94
741	42	0.07	55576	98.68	792	1	0.00	56288	99.94
742	38	0.07	55614	98.75	793	1	0.00	56289	99.94
743	51	0.09	55665	98.84	794	4	0.01	56293	99.95
744	34	0.06	55699	98.90	795	1	0.00	56294	99.95
745	47	0.08	55746	98.98	796	3	0.01	56297	99.96
746	23	0.04	55769	99.02	797	2	0.00	56299	99.96
747	35	0.06	55804	99.08	798	3	0.01	56302	99.97
748	29	0.05	55833	99.14	799	1	0.00	56303	99.97
749	32	0.06	55865	99.19	800	1	0.00	56304	99.97
750	25	0.04	55890	99.24	801	2	0.00	56306	99.98
751	24	0.04	55914	99.28	802	1	0.00	56307	99.98
752	23	0.04	55937	99.32	803	2	0.00	56309	99.98
753	21	0.04	55958	99.36	804	1	0.00	56310	99.98
754	25	0.04	55983	99.40	810	1	0.00	56311	99.98
755	22	0.04	56005	99.44	813	2	0.00	56313	99.99
756	19	0.03	56024	99.47	817	1	0.00	56314	99.99
757	18	0.03	56042	99.51	818	1	0.00	56315	99.99
758	25	0.04	56067	99.55	821	2	0.00	56317	99.99
759	6	0.01	56073	99.56	825	1	0.00	56318	100.00
760	13	0.02	56086	99.58	837	1	0.00	56319	100.00
761	18	0.03	56104	99.62	839	1	0.00	56320	100.00
762	9	0.02	56113	99.63					
763	9	0.02	56122	99.65					
764	16	0.03	56138	99.68					
765	15	0.03	56153	99.70					
766	11	0.02	56164	99.72					
767	12	0.02	56176	99.74					
768	7	0.01	56183	99.76					
769	10	0.02	56193	99.77					
770	9	0.02	56202	99.79					
771	3	0.01	56205	99.80					
772	4	0.01	56209	99.80					
773	8	0.01	56217	99.82					
774	4	0.01	56221	99.82					
775	9	0.02	56230	99.84					
776	8	0.01	56238	99.85					
777	10	0.02	56248	99.87					
778	7	0.01	56255	99.88					
779	3	0.01	56258	99.89					
780	2	0.00	56260	99.89					

**Table 172. Writing 6 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
230	34	0.06	34	0.06	312	4	0.01	132	0.23	364	16	0.03	521	0.92
231	1	0.00	35	0.06	313	2	0.00	134	0.24	365	12	0.02	533	0.95
234	1	0.00	36	0.06	314	7	0.01	141	0.25	366	15	0.03	548	0.97
238	2	0.00	38	0.07	316	4	0.01	145	0.26	367	18	0.03	566	1.00
245	1	0.00	39	0.07	317	2	0.00	147	0.26	368	11	0.02	577	1.02
247	1	0.00	40	0.07	318	4	0.01	151	0.27	369	19	0.03	596	1.06
251	1	0.00	41	0.07	319	2	0.00	153	0.27	370	17	0.03	613	1.09
252	1	0.00	42	0.07	320	2	0.00	155	0.27	371	14	0.02	627	1.11
253	1	0.00	43	0.08	321	1	0.00	156	0.28	372	28	0.05	655	1.16
255	1	0.00	44	0.08	323	2	0.00	158	0.28	373	23	0.04	678	1.20
256	1	0.00	45	0.08	324	5	0.01	163	0.29	374	21	0.04	699	1.24
258	1	0.00	46	0.08	325	9	0.02	172	0.31	375	22	0.04	721	1.28
259	1	0.00	47	0.08	326	5	0.01	177	0.31	376	21	0.04	742	1.32
261	2	0.00	49	0.09	327	4	0.01	181	0.32	377	23	0.04	765	1.36
263	1	0.00	50	0.09	328	2	0.00	183	0.32	378	29	0.05	794	1.41
264	1	0.00	51	0.09	329	5	0.01	188	0.33	379	24	0.04	818	1.45
267	2	0.00	53	0.09	330	2	0.00	190	0.34	380	13	0.02	831	1.47
270	1	0.00	54	0.10	331	4	0.01	194	0.34	381	25	0.04	856	1.52
271	3	0.01	57	0.10	332	6	0.01	200	0.35	382	27	0.05	883	1.57
274	1	0.00	58	0.10	333	8	0.01	208	0.37	383	21	0.04	904	1.60
276	1	0.00	59	0.10	334	9	0.02	217	0.38	384	35	0.06	939	1.67
280	1	0.00	60	0.11	335	5	0.01	222	0.39	385	27	0.05	966	1.71
281	1	0.00	61	0.11	336	7	0.01	229	0.41	386	15	0.03	981	1.74
282	2	0.00	63	0.11	337	6	0.01	235	0.42	387	30	0.05	1011	1.79
283	2	0.00	65	0.12	338	12	0.02	247	0.44	388	27	0.05	1038	1.84
284	1	0.00	66	0.12	339	11	0.02	258	0.46	389	33	0.06	1071	1.90
286	1	0.00	67	0.12	340	8	0.01	266	0.47	390	36	0.06	1107	1.96
288	3	0.01	70	0.12	341	11	0.02	277	0.49	391	39	0.07	1146	2.03
289	4	0.01	74	0.13	342	4	0.01	281	0.50	392	29	0.05	1175	2.08
290	2	0.00	76	0.13	343	10	0.02	291	0.52	393	33	0.06	1208	2.14
291	2	0.00	78	0.14	344	6	0.01	297	0.53	394	33	0.06	1241	2.20
293	5	0.01	83	0.15	345	11	0.02	308	0.55	395	46	0.08	1287	2.28
294	1	0.00	84	0.15	346	9	0.02	317	0.56	396	36	0.06	1323	2.35
295	1	0.00	85	0.15	347	5	0.01	322	0.57	397	35	0.06	1358	2.41
296	3	0.01	88	0.16	348	7	0.01	329	0.58	398	45	0.08	1403	2.49
297	3	0.01	91	0.16	349	11	0.02	340	0.60	399	36	0.06	1439	2.55
298	2	0.00	93	0.16	350	5	0.01	345	0.61	400	48	0.09	1487	2.64
299	3	0.01	96	0.17	351	14	0.02	359	0.64	401	39	0.07	1526	2.71
300	1	0.00	97	0.17	352	10	0.02	369	0.65	402	44	0.08	1570	2.78
301	2	0.00	99	0.18	353	10	0.02	379	0.67	403	45	0.08	1615	2.86
302	4	0.01	103	0.18	354	9	0.02	388	0.69	404	36	0.06	1651	2.93
303	2	0.00	105	0.19	355	14	0.02	402	0.71	405	55	0.10	1706	3.03
304	4	0.01	109	0.19	356	9	0.02	411	0.73	406	45	0.08	1751	3.11
305	1	0.00	110	0.20	357	18	0.03	429	0.76	407	46	0.08	1797	3.19
306	4	0.01	114	0.20	358	9	0.02	438	0.78	408	45	0.08	1842	3.27
307	6	0.01	120	0.21	359	14	0.02	452	0.80	409	62	0.11	1904	3.38
308	3	0.01	123	0.22	360	8	0.01	460	0.82	410	60	0.11	1964	3.48
309	3	0.01	126	0.22	361	11	0.02	471	0.84	411	63	0.11	2027	3.60
310	1	0.00	127	0.23	362	23	0.04	494	0.88	412	54	0.10	2081	3.69
311	1	0.00	128	0.23	363	11	0.02	505	0.90	413	58	0.10	2139	3.79

**Table 172. Writing 6 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
414	59	0.10	2198	3.90	464	200	0.35	8378	14.86	514	386	0.68	23046	40.88
415	50	0.09	2248	3.99	465	199	0.35	8577	15.21	515	365	0.65	23411	41.52
416	64	0.11	2312	4.10	466	207	0.37	8784	15.58	516	356	0.63	23767	42.16
417	53	0.09	2365	4.19	467	196	0.35	8980	15.93	517	378	0.67	24145	42.83
418	63	0.11	2428	4.31	468	193	0.34	9173	16.27	518	368	0.65	24513	43.48
419	71	0.13	2499	4.43	469	210	0.37	9383	16.64	519	378	0.67	24891	44.15
420	67	0.12	2566	4.55	470	224	0.40	9607	17.04	520	387	0.69	25278	44.84
421	77	0.14	2643	4.69	471	229	0.41	9836	17.45	521	390	0.69	25668	45.53
422	72	0.13	2715	4.82	472	232	0.41	10068	17.86	522	424	0.75	26092	46.28
423	68	0.12	2783	4.94	473	228	0.40	10296	18.26	523	413	0.73	26505	47.01
424	87	0.15	2870	5.09	474	235	0.42	10531	18.68	524	373	0.66	26878	47.67
425	106	0.19	2976	5.28	475	243	0.43	10774	19.11	525	371	0.66	27249	48.33
426	81	0.14	3057	5.42	476	248	0.44	11022	19.55	526	402	0.71	27651	49.04
427	90	0.16	3147	5.58	477	256	0.45	11278	20.00	527	417	0.74	28068	49.78
428	90	0.16	3237	5.74	478	240	0.43	11518	20.43	528	378	0.67	28446	50.45
429	90	0.16	3327	5.90	479	259	0.46	11777	20.89	529	417	0.74	28863	51.19
430	94	0.17	3421	6.07	480	269	0.48	12046	21.37	530	427	0.76	29290	51.95
431	89	0.16	3510	6.23	481	303	0.54	12349	21.90	531	426	0.76	29716	52.71
432	108	0.19	3618	6.42	482	266	0.47	12615	22.37	532	394	0.70	30110	53.41
433	92	0.16	3710	6.58	483	296	0.53	12911	22.90	533	432	0.77	30542	54.17
434	114	0.20	3824	6.78	484	259	0.46	13170	23.36	534	408	0.72	30950	54.90
435	116	0.21	3940	6.99	485	260	0.46	13430	23.82	535	405	0.72	31355	55.61
436	122	0.22	4062	7.20	486	276	0.49	13706	24.31	536	384	0.68	31739	56.29
437	108	0.19	4170	7.40	487	315	0.56	14021	24.87	537	384	0.68	32123	56.98
438	110	0.20	4280	7.59	488	267	0.47	14288	25.34	538	365	0.65	32488	57.62
439	115	0.20	4395	7.80	489	301	0.53	14589	25.88	539	409	0.73	32897	58.35
440	122	0.22	4517	8.01	490	271	0.48	14860	26.36	540	405	0.72	33302	59.07
441	138	0.24	4655	8.26	491	304	0.54	15164	26.90	541	359	0.64	33661	59.70
442	132	0.23	4787	8.49	492	289	0.51	15453	27.41	542	375	0.67	34036	60.37
443	125	0.22	4912	8.71	493	302	0.54	15755	27.94	543	399	0.71	34435	61.08
444	128	0.23	5040	8.94	494	314	0.56	16069	28.50	544	353	0.63	34788	61.70
445	124	0.22	5164	9.16	495	333	0.59	16402	29.09	545	355	0.63	35143	62.33
446	129	0.23	5293	9.39	496	334	0.59	16736	29.68	546	367	0.65	35510	62.98
447	161	0.29	5454	9.67	497	308	0.55	17044	30.23	547	349	0.62	35859	63.60
448	161	0.29	5615	9.96	498	320	0.57	17364	30.80	548	362	0.64	36221	64.24
449	138	0.24	5753	10.20	499	331	0.59	17695	31.39	549	357	0.63	36578	64.88
450	150	0.27	5903	10.47	500	333	0.59	18028	31.98	550	353	0.63	36931	65.50
451	137	0.24	6040	10.71	501	342	0.61	18370	32.58	551	338	0.60	37269	66.10
452	154	0.27	6194	10.99	502	344	0.61	18714	33.19	552	337	0.60	37606	66.70
453	168	0.30	6362	11.28	503	361	0.64	19075	33.83	553	343	0.61	37949	67.31
454	155	0.27	6517	11.56	504	351	0.62	19426	34.46	554	358	0.63	38307	67.94
455	160	0.28	6677	11.84	505	378	0.67	19804	35.13	555	319	0.57	38626	68.51
456	182	0.32	6859	12.17	506	342	0.61	20146	35.73	556	301	0.53	38927	69.04
457	172	0.31	7031	12.47	507	356	0.63	20502	36.36	557	336	0.60	39263	69.64
458	190	0.34	7221	12.81	508	345	0.61	20847	36.98	558	319	0.57	39582	70.21
459	197	0.35	7418	13.16	509	359	0.64	21206	37.61	559	317	0.56	39899	70.77
460	185	0.33	7603	13.49	510	367	0.65	21573	38.26	560	322	0.57	40221	71.34
461	193	0.34	7796	13.83	511	359	0.64	21932	38.90	561	331	0.59	40552	71.93
462	183	0.32	7979	14.15	512	365	0.65	22297	39.55	562	322	0.57	40874	72.50
463	199	0.35	8178	14.51	513	363	0.64	22660	40.19	563	318	0.56	41192	73.06

**Table 172. Writing 6 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
564	315	0.56	41507	73.62	611	125	0.22	51826	91.92	658	36	0.06	55412	98.28
565	303	0.54	41810	74.16	612	126	0.22	51952	92.15	659	29	0.05	55441	98.33
566	306	0.54	42116	74.70	613	132	0.23	52084	92.38	660	34	0.06	55475	98.39
567	286	0.51	42402	75.21	614	145	0.26	52229	92.64	661	26	0.05	55501	98.44
568	311	0.55	42713	75.76	615	103	0.18	52332	92.82	662	26	0.05	55527	98.49
569	307	0.54	43020	76.30	616	126	0.22	52458	93.04	663	26	0.05	55553	98.53
570	289	0.51	43309	76.82	617	108	0.19	52566	93.24	664	32	0.06	55585	98.59
571	280	0.50	43589	77.31	618	133	0.24	52699	93.47	665	36	0.06	55621	98.65
572	283	0.50	43872	77.81	619	99	0.18	52798	93.65	666	26	0.05	55647	98.70
573	263	0.47	44135	78.28	620	109	0.19	52907	93.84	667	24	0.04	55671	98.74
574	277	0.49	44412	78.77	621	120	0.21	53027	94.05	668	27	0.05	55698	98.79
575	266	0.47	44678	79.24	622	103	0.18	53130	94.24	669	15	0.03	55713	98.82
576	271	0.48	44949	79.73	623	116	0.21	53246	94.44	670	24	0.04	55737	98.86
577	299	0.53	45248	80.26	624	94	0.17	53340	94.61	671	36	0.06	55773	98.92
578	260	0.46	45508	80.72	625	100	0.18	53440	94.79	672	27	0.05	55800	98.97
579	270	0.48	45778	81.20	626	97	0.17	53537	94.96	673	17	0.03	55817	99.00
580	244	0.43	46022	81.63	627	85	0.15	53622	95.11	674	12	0.02	55829	99.02
581	225	0.40	46247	82.03	628	88	0.16	53710	95.26	675	32	0.06	55861	99.08
582	246	0.44	46493	82.46	629	87	0.15	53797	95.42	676	18	0.03	55879	99.11
583	229	0.41	46722	82.87	630	77	0.14	53874	95.56	677	19	0.03	55898	99.15
584	254	0.45	46976	83.32	631	87	0.15	53961	95.71	678	10	0.02	55908	99.16
585	241	0.43	47217	83.75	632	89	0.16	54050	95.87	679	12	0.02	55920	99.18
586	203	0.36	47420	84.11	633	67	0.12	54117	95.99	680	11	0.02	55931	99.20
587	228	0.40	47648	84.51	634	69	0.12	54186	96.11	681	19	0.03	55950	99.24
588	248	0.44	47896	84.95	635	61	0.11	54247	96.22	682	14	0.02	55964	99.26
589	198	0.35	48094	85.30	636	65	0.12	54312	96.33	683	18	0.03	55982	99.29
590	219	0.39	48313	85.69	637	77	0.14	54389	96.47	684	10	0.02	55992	99.31
591	201	0.36	48514	86.05	638	64	0.11	54453	96.58	685	8	0.01	56000	99.33
592	186	0.33	48700	86.38	639	60	0.11	54513	96.69	686	9	0.02	56009	99.34
593	182	0.32	48882	86.70	640	61	0.11	54574	96.80	687	14	0.02	56023	99.37
594	189	0.34	49071	87.04	641	67	0.12	54641	96.92	688	9	0.02	56032	99.38
595	207	0.37	49278	87.40	642	65	0.12	54706	97.03	689	6	0.01	56038	99.39
596	180	0.32	49458	87.72	643	57	0.10	54763	97.13	690	5	0.01	56043	99.40
597	174	0.31	49632	88.03	644	53	0.09	54816	97.23	691	16	0.03	56059	99.43
598	190	0.34	49822	88.37	645	65	0.12	54881	97.34	692	17	0.03	56076	99.46
599	191	0.34	50013	88.71	646	52	0.09	54933	97.43	693	5	0.01	56081	99.47
600	177	0.31	50190	89.02	647	48	0.09	54981	97.52	694	7	0.01	56088	99.48
601	163	0.29	50353	89.31	648	48	0.09	55029	97.60	695	13	0.02	56101	99.51
602	169	0.30	50522	89.61	649	50	0.09	55079	97.69	696	6	0.01	56107	99.52
603	143	0.25	50665	89.86	650	40	0.07	55119	97.76	697	14	0.02	56121	99.54
604	172	0.31	50837	90.17	651	40	0.07	55159	97.83	698	7	0.01	56128	99.55
605	131	0.23	50968	90.40	652	34	0.06	55193	97.89	699	6	0.01	56134	99.56
606	146	0.26	51114	90.66	653	39	0.07	55232	97.96	700	8	0.01	56142	99.58
607	167	0.30	51281	90.96	654	37	0.07	55269	98.03	701	5	0.01	56147	99.59
608	136	0.24	51417	91.20	655	38	0.07	55307	98.10	702	4	0.01	56151	99.59
609	153	0.27	51570	91.47	656	36	0.06	55343	98.16	703	10	0.02	56161	99.61
610	131	0.23	51701	91.70	657	33	0.06	55376	98.22	704	7	0.01	56168	99.62

**Table 172. Writing 6 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
706	4	0.01	56172	99.63	774	1	0.00	56339	99.93
707	3	0.01	56175	99.64	775	1	0.00	56340	99.93
708	11	0.02	56186	99.66	777	2	0.00	56342	99.93
709	10	0.02	56196	99.67	778	1	0.00	56343	99.93
710	3	0.01	56199	99.68	781	1	0.00	56344	99.94
711	11	0.02	56210	99.70	782	1	0.00	56345	99.94
712	3	0.01	56213	99.70	789	2	0.00	56347	99.94
713	4	0.01	56217	99.71	793	2	0.00	56349	99.95
714	4	0.01	56221	99.72	794	2	0.00	56351	99.95
715	7	0.01	56228	99.73	809	4	0.01	56355	99.96
716	2	0.00	56230	99.73	814	4	0.01	56359	99.96
717	4	0.01	56234	99.74	821	1	0.00	56360	99.96
718	2	0.00	56236	99.74	823	7	0.01	56367	99.98
719	2	0.00	56238	99.75	834	2	0.00	56369	99.98
720	3	0.01	56241	99.75	840	11	0.02	56380	100.00
721	2	0.00	56243	99.76					
722	6	0.01	56249	99.77					
723	1	0.00	56250	99.77					
724	2	0.00	56252	99.77					
725	4	0.01	56256	99.78					
726	3	0.01	56259	99.79					
729	15	0.03	56274	99.81					
730	2	0.00	56276	99.82					
731	3	0.01	56279	99.82					
732	3	0.01	56282	99.83					
733	2	0.00	56284	99.83					
734	1	0.00	56285	99.83					
735	2	0.00	56287	99.84					
736	1	0.00	56288	99.84					
737	3	0.01	56291	99.84					
739	1	0.00	56292	99.84					
740	4	0.01	56296	99.85					
741	3	0.01	56299	99.86					
742	3	0.01	56302	99.86					
743	3	0.01	56305	99.87					
744	2	0.00	56307	99.87					
745	2	0.00	56309	99.87					
746	1	0.00	56310	99.88					
747	3	0.01	56313	99.88					
750	1	0.00	56314	99.88					
751	2	0.00	56316	99.89					
752	3	0.01	56319	99.89					
753	3	0.01	56322	99.90					
757	4	0.01	56326	99.90					
760	1	0.00	56327	99.91					
762	4	0.01	56331	99.91					
766	3	0.01	56334	99.92					
767	2	0.00	56336	99.92					
769	1	0.00	56337	99.92					
771	1	0.00	56338	99.93					



**Table 173. Mathematics 6 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
240	83	0.15	83	0.15	294	4	0.01	239	0.42	344	12	0.02	740	1.31
242	1	0.00	84	0.15	295	9	0.02	248	0.44	345	11	0.02	751	1.33
243	3	0.01	87	0.15	296	5	0.01	253	0.45	346	12	0.02	763	1.35
244	5	0.01	92	0.16	297	7	0.01	260	0.46	347	15	0.03	778	1.38
246	2	0.00	94	0.17	298	6	0.01	266	0.47	348	17	0.03	795	1.41
248	1	0.00	95	0.17	299	5	0.01	271	0.48	349	15	0.03	810	1.43
249	2	0.00	97	0.17	300	5	0.01	276	0.49	350	15	0.03	825	1.46
250	3	0.01	100	0.18	301	5	0.01	281	0.50	351	18	0.03	843	1.49
251	1	0.00	101	0.18	302	5	0.01	286	0.51	352	17	0.03	860	1.52
252	1	0.00	102	0.18	303	9	0.02	295	0.52	353	24	0.04	884	1.57
253	1	0.00	103	0.18	304	9	0.02	304	0.54	354	12	0.02	896	1.59
254	3	0.01	106	0.19	305	5	0.01	309	0.55	355	21	0.04	917	1.62
256	2	0.00	108	0.19	306	7	0.01	316	0.56	356	27	0.05	944	1.67
257	4	0.01	112	0.20	307	8	0.01	324	0.57	357	20	0.04	964	1.71
258	4	0.01	116	0.21	308	4	0.01	328	0.58	358	32	0.06	996	1.76
259	4	0.01	120	0.21	309	10	0.02	338	0.60	359	18	0.03	1014	1.80
260	3	0.01	123	0.22	310	5	0.01	343	0.61	360	20	0.04	1034	1.83
261	3	0.01	126	0.22	311	4	0.01	347	0.61	361	21	0.04	1055	1.87
262	2	0.00	128	0.23	312	11	0.02	358	0.63	362	17	0.03	1072	1.90
263	2	0.00	130	0.23	313	6	0.01	364	0.64	363	32	0.06	1104	1.96
264	2	0.00	132	0.23	314	9	0.02	373	0.66	364	23	0.04	1127	2.00
265	4	0.01	136	0.24	315	14	0.02	387	0.69	365	23	0.04	1150	2.04
266	7	0.01	143	0.25	316	9	0.02	396	0.70	366	29	0.05	1179	2.09
267	2	0.00	145	0.26	317	12	0.02	408	0.72	367	22	0.04	1201	2.13
268	4	0.01	149	0.26	318	5	0.01	413	0.73	368	24	0.04	1225	2.17
269	2	0.00	151	0.27	319	7	0.01	420	0.74	369	29	0.05	1254	2.22
270	3	0.01	154	0.27	320	11	0.02	431	0.76	370	31	0.05	1285	2.28
271	3	0.01	157	0.28	321	9	0.02	440	0.78	371	23	0.04	1308	2.32
272	6	0.01	163	0.29	322	11	0.02	451	0.80	372	39	0.07	1347	2.39
273	2	0.00	165	0.29	323	10	0.02	461	0.82	373	24	0.04	1371	2.43
274	2	0.00	167	0.30	324	7	0.01	468	0.83	374	43	0.08	1414	2.50
275	1	0.00	168	0.30	325	15	0.03	483	0.86	375	19	0.03	1433	2.54
276	1	0.00	169	0.30	326	8	0.01	491	0.87	376	18	0.03	1451	2.57
277	3	0.01	172	0.30	327	16	0.03	507	0.90	377	28	0.05	1479	2.62
278	1	0.00	173	0.31	328	7	0.01	514	0.91	378	41	0.07	1520	2.69
279	4	0.01	177	0.31	329	17	0.03	531	0.94	379	21	0.04	1541	2.73
280	7	0.01	184	0.33	330	12	0.02	543	0.96	380	42	0.07	1583	2.80
281	2	0.00	186	0.33	331	10	0.02	553	0.98	381	29	0.05	1612	2.86
282	5	0.01	191	0.34	332	8	0.01	561	0.99	382	40	0.07	1652	2.93
283	8	0.01	199	0.35	333	14	0.02	575	1.02	383	31	0.05	1683	2.98
284	4	0.01	203	0.36	334	8	0.01	583	1.03	384	28	0.05	1711	3.03
285	5	0.01	208	0.37	335	17	0.03	600	1.06	385	33	0.06	1744	3.09
286	2	0.00	210	0.37	336	20	0.04	620	1.10	386	33	0.06	1777	3.15
287	1	0.00	211	0.37	337	13	0.02	633	1.12	387	35	0.06	1812	3.21
288	5	0.01	216	0.38	338	17	0.03	650	1.15	388	44	0.08	1856	3.29
289	3	0.01	219	0.39	339	12	0.02	662	1.17	389	45	0.08	1901	3.37
290	5	0.01	224	0.40	340	17	0.03	679	1.20	390	34	0.06	1935	3.43
291	6	0.01	230	0.41	341	12	0.02	691	1.22	391	38	0.07	1973	3.50
292	2	0.00	232	0.41	342	19	0.03	710	1.26	392	40	0.07	2013	3.57
293	3	0.01	235	0.42	343	18	0.03	728	1.29	393	51	0.09	2064	3.66

**Table 173. Mathematics 6 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
394	50	0.09	2114	3.74	444	132	0.23	6103	10.81	494	253	0.45	15371	27.23
395	43	0.08	2157	3.82	445	118	0.21	6221	11.02	495	255	0.45	15626	27.68
396	50	0.09	2207	3.91	446	126	0.22	6347	11.24	496	230	0.41	15856	28.09
397	46	0.08	2253	3.99	447	106	0.19	6453	11.43	497	273	0.48	16129	28.57
398	42	0.07	2295	4.07	448	148	0.26	6601	11.69	498	264	0.47	16393	29.04
399	58	0.10	2353	4.17	449	145	0.26	6746	11.95	499	250	0.44	16643	29.48
400	59	0.10	2412	4.27	450	119	0.21	6865	12.16	500	257	0.46	16900	29.94
401	61	0.11	2473	4.38	451	142	0.25	7007	12.41	501	269	0.48	17169	30.41
402	54	0.10	2527	4.48	452	148	0.26	7155	12.67	502	267	0.47	17436	30.89
403	47	0.08	2574	4.56	453	142	0.25	7297	12.93	503	276	0.49	17712	31.38
404	49	0.09	2623	4.65	454	159	0.28	7456	13.21	504	282	0.50	17994	31.87
405	50	0.09	2673	4.73	455	142	0.25	7598	13.46	505	270	0.48	18264	32.35
406	45	0.08	2718	4.81	456	143	0.25	7741	13.71	506	273	0.48	18537	32.84
407	77	0.14	2795	4.95	457	116	0.21	7857	13.92	507	278	0.49	18815	33.33
408	65	0.12	2860	5.07	458	160	0.28	8017	14.20	508	295	0.52	19110	33.85
409	44	0.08	2904	5.14	459	142	0.25	8159	14.45	509	290	0.51	19400	34.37
410	91	0.16	2995	5.31	460	182	0.32	8341	14.78	510	307	0.54	19707	34.91
411	70	0.12	3065	5.43	461	188	0.33	8529	15.11	511	309	0.55	20016	35.46
412	55	0.10	3120	5.53	462	165	0.29	8694	15.40	512	273	0.48	20289	35.94
413	75	0.13	3195	5.66	463	170	0.30	8864	15.70	513	301	0.53	20590	36.47
414	52	0.09	3247	5.75	464	189	0.33	9053	16.04	514	280	0.50	20870	36.97
415	68	0.12	3315	5.87	465	161	0.29	9214	16.32	515	289	0.51	21159	37.48
416	75	0.13	3390	6.01	466	166	0.29	9380	16.62	516	291	0.52	21450	38.00
417	62	0.11	3452	6.11	467	171	0.30	9551	16.92	517	276	0.49	21726	38.49
418	82	0.15	3534	6.26	468	192	0.34	9743	17.26	518	318	0.56	22044	39.05
419	80	0.14	3614	6.40	469	165	0.29	9908	17.55	519	277	0.49	22321	39.54
420	75	0.13	3689	6.53	470	172	0.30	10080	17.86	520	329	0.58	22650	40.12
421	102	0.18	3791	6.72	471	185	0.33	10265	18.18	521	282	0.50	22932	40.62
422	76	0.13	3867	6.85	472	200	0.35	10465	18.54	522	299	0.53	23231	41.15
423	76	0.13	3943	6.98	473	170	0.30	10635	18.84	523	317	0.56	23548	41.71
424	89	0.16	4032	7.14	474	206	0.36	10841	19.20	524	313	0.55	23861	42.27
425	72	0.13	4104	7.27	475	185	0.33	11026	19.53	525	304	0.54	24165	42.81
426	99	0.18	4203	7.45	476	201	0.36	11227	19.89	526	306	0.54	24471	43.35
427	101	0.18	4304	7.62	477	198	0.35	11425	20.24	527	304	0.54	24775	43.89
428	95	0.17	4399	7.79	478	207	0.37	11632	20.61	528	317	0.56	25092	44.45
429	96	0.17	4495	7.96	479	204	0.36	11836	20.97	529	320	0.57	25412	45.02
430	86	0.15	4581	8.11	480	188	0.33	12024	21.30	530	320	0.57	25732	45.58
431	84	0.15	4665	8.26	481	219	0.39	12243	21.69	531	328	0.58	26060	46.16
432	93	0.16	4758	8.43	482	240	0.43	12483	22.11	532	302	0.53	26362	46.70
433	92	0.16	4850	8.59	483	220	0.39	12703	22.50	533	322	0.57	26684	47.27
434	97	0.17	4947	8.76	484	230	0.41	12933	22.91	534	306	0.54	26990	47.81
435	96	0.17	5043	8.93	485	236	0.42	13169	23.33	535	282	0.50	27272	48.31
436	114	0.20	5157	9.14	486	253	0.45	13422	23.78	536	286	0.51	27558	48.82
437	111	0.20	5268	9.33	487	203	0.36	13625	24.14	537	324	0.57	27882	49.39
438	116	0.21	5384	9.54	488	233	0.41	13858	24.55	538	285	0.50	28167	49.90
439	114	0.20	5498	9.74	489	228	0.40	14086	24.95	539	295	0.52	28462	50.42
440	134	0.24	5632	9.98	490	259	0.46	14345	25.41	540	308	0.55	28770	50.96
441	119	0.21	5751	10.19	491	249	0.44	14594	25.85	541	301	0.53	29071	51.50
442	103	0.18	5854	10.37	492	274	0.49	14868	26.34	542	330	0.58	29401	52.08
443	117	0.21	5971	10.58	493	250	0.44	15118	26.78	543	330	0.58	29731	52.67

**Table 173. Mathematics 6 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
544	294	0.52	30025	53.19	591	230	0.41	43091	76.33	638	140	0.25	51817	91.79
545	289	0.51	30314	53.70	592	227	0.40	43318	76.73	639	120	0.21	51937	92.00
546	326	0.58	30640	54.28	593	223	0.40	43541	77.13	640	111	0.20	52048	92.20
547	312	0.55	30952	54.83	594	214	0.38	43755	77.51	641	133	0.24	52181	92.43
548	286	0.51	31238	55.34	595	224	0.40	43979	77.91	642	115	0.20	52296	92.64
549	299	0.53	31537	55.87	596	237	0.42	44216	78.32	643	118	0.21	52414	92.85
550	272	0.48	31809	56.35	597	236	0.42	44452	78.74	644	105	0.19	52519	93.03
551	337	0.60	32146	56.94	598	233	0.41	44685	79.16	645	102	0.18	52621	93.21
552	320	0.57	32466	57.51	599	239	0.42	44924	79.58	646	112	0.20	52733	93.41
553	295	0.52	32761	58.03	600	198	0.35	45122	79.93	647	108	0.19	52841	93.60
554	309	0.55	33070	58.58	601	215	0.38	45337	80.31	648	106	0.19	52947	93.79
555	277	0.49	33347	59.07	602	205	0.36	45542	80.67	649	108	0.19	53055	93.98
556	292	0.52	33639	59.59	603	202	0.36	45744	81.03	650	94	0.17	53149	94.15
557	327	0.58	33966	60.17	604	229	0.41	45973	81.44	651	97	0.17	53246	94.32
558	294	0.52	34260	60.69	605	220	0.39	46193	81.83	652	100	0.18	53346	94.50
559	278	0.49	34538	61.18	606	228	0.40	46421	82.23	653	88	0.16	53434	94.65
560	288	0.51	34826	61.69	607	172	0.30	46593	82.54	654	78	0.14	53512	94.79
561	268	0.47	35094	62.17	608	224	0.40	46817	82.93	655	78	0.14	53590	94.93
562	283	0.50	35377	62.67	609	190	0.34	47007	83.27	656	78	0.14	53668	95.07
563	284	0.50	35661	63.17	610	209	0.37	47216	83.64	657	81	0.14	53749	95.21
564	249	0.44	35910	63.61	611	204	0.36	47420	84.00	658	81	0.14	53830	95.36
565	283	0.50	36193	64.11	612	222	0.39	47642	84.39	659	80	0.14	53910	95.50
566	293	0.52	36486	64.63	613	202	0.36	47844	84.75	660	88	0.16	53998	95.65
567	278	0.49	36764	65.12	614	199	0.35	48043	85.10	661	76	0.13	54074	95.79
568	279	0.49	37043	65.62	615	170	0.30	48213	85.41	662	80	0.14	54154	95.93
569	293	0.52	37336	66.14	616	195	0.35	48408	85.75	663	73	0.13	54227	96.06
570	271	0.48	37607	66.62	617	172	0.30	48580	86.06	664	58	0.10	54285	96.16
571	305	0.54	37912	67.16	618	189	0.33	48769	86.39	665	60	0.11	54345	96.27
572	276	0.49	38188	67.65	619	178	0.32	48947	86.71	666	61	0.11	54406	96.38
573	289	0.51	38477	68.16	620	165	0.29	49112	87.00	667	60	0.11	54466	96.48
574	298	0.53	38775	68.69	621	185	0.33	49297	87.33	668	56	0.10	54522	96.58
575	249	0.44	39024	69.13	622	163	0.29	49460	87.61	669	55	0.10	54577	96.68
576	302	0.53	39326	69.66	623	176	0.31	49636	87.93	670	57	0.10	54634	96.78
577	297	0.53	39623	70.19	624	159	0.28	49795	88.21	671	51	0.09	54685	96.87
578	270	0.48	39893	70.67	625	157	0.28	49952	88.49	672	54	0.10	54739	96.97
579	281	0.50	40174	71.16	626	157	0.28	50109	88.76	673	56	0.10	54795	97.06
580	263	0.47	40437	71.63	627	161	0.29	50270	89.05	674	47	0.08	54842	97.15
581	244	0.43	40681	72.06	628	160	0.28	50430	89.33	675	57	0.10	54899	97.25
582	256	0.45	40937	72.52	629	155	0.27	50585	89.61	676	54	0.10	54953	97.34
583	228	0.40	41165	72.92	630	139	0.25	50724	89.85	677	47	0.08	55000	97.43
584	258	0.46	41423	73.38	631	139	0.25	50863	90.10	678	37	0.07	55037	97.49
585	233	0.41	41656	73.79	632	137	0.24	51000	90.34	679	33	0.06	55070	97.55
586	228	0.40	41884	74.19	633	140	0.25	51140	90.59	680	39	0.07	55109	97.62
587	227	0.40	42111	74.60	634	130	0.23	51270	90.82	681	39	0.07	55148	97.69
588	259	0.46	42370	75.05	635	156	0.28	51426	91.10	682	33	0.06	55181	97.75
589	244	0.43	42614	75.49	636	125	0.22	51551	91.32	683	46	0.08	55227	97.83
590	247	0.44	42861	75.92	637	126	0.22	51677	91.54	684	32	0.06	55259	97.89

**Table 173. Mathematics 6 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
685	37	0.07	55296	97.95	735	10	0.02	56181	99.52	830	31	0.05	56452	100.00
686	33	0.06	55329	98.01	736	5	0.01	56186	99.53					
687	26	0.05	55355	98.06	737	11	0.02	56197	99.55					
688	18	0.03	55373	98.09	738	7	0.01	56204	99.56					
689	33	0.06	55406	98.15	739	4	0.01	56208	99.57					
690	31	0.05	55437	98.20	740	1	0.00	56209	99.57					
691	31	0.05	55468	98.26	741	8	0.01	56217	99.58					
692	32	0.06	55500	98.31	742	2	0.00	56219	99.59					
693	31	0.05	55531	98.37	743	3	0.01	56222	99.59					
694	31	0.05	55562	98.42	744	5	0.01	56227	99.60					
695	26	0.05	55588	98.47	745	1	0.00	56228	99.60					
696	27	0.05	55615	98.52	746	9	0.02	56237	99.62					
697	29	0.05	55644	98.57	747	5	0.01	56242	99.63					
698	28	0.05	55672	98.62	748	1	0.00	56243	99.63					
699	24	0.04	55696	98.66	749	2	0.00	56245	99.63					
700	21	0.04	55717	98.70	750	8	0.01	56253	99.65					
701	18	0.03	55735	98.73	751	14	0.02	56267	99.67					
702	23	0.04	55758	98.77	752	3	0.01	56270	99.68					
703	17	0.03	55775	98.80	753	4	0.01	56274	99.68					
704	18	0.03	55793	98.83	754	2	0.00	56276	99.69					
705	17	0.03	55810	98.86	755	6	0.01	56282	99.70					
706	17	0.03	55827	98.89	757	3	0.01	56285	99.70					
707	21	0.04	55848	98.93	758	9	0.02	56294	99.72					
708	10	0.02	55858	98.95	759	8	0.01	56302	99.73					
709	6	0.01	55864	98.96	760	2	0.00	56304	99.74					
710	24	0.04	55888	99.00	761	2	0.00	56306	99.74					
711	12	0.02	55900	99.02	762	3	0.01	56309	99.75					
712	12	0.02	55912	99.04	763	12	0.02	56321	99.77					
713	9	0.02	55921	99.06	764	2	0.00	56323	99.77					
714	15	0.03	55936	99.09	768	1	0.00	56324	99.77					
715	16	0.03	55952	99.11	770	1	0.00	56325	99.78					
716	13	0.02	55965	99.14	772	5	0.01	56330	99.78					
717	25	0.04	55990	99.18	775	1	0.00	56331	99.79					
718	11	0.02	56001	99.20	776	2	0.00	56333	99.79					
719	14	0.02	56015	99.23	778	1	0.00	56334	99.79					
720	10	0.02	56025	99.24	780	3	0.01	56337	99.80					
721	12	0.02	56037	99.26	782	13	0.02	56350	99.82					
722	11	0.02	56048	99.28	783	4	0.01	56354	99.83					
723	16	0.03	56064	99.31	791	16	0.03	56370	99.85					
724	12	0.02	56076	99.33	793	2	0.00	56372	99.86					
725	8	0.01	56084	99.35	797	2	0.00	56374	99.86					
726	13	0.02	56097	99.37	799	1	0.00	56375	99.86					
727	15	0.03	56112	99.40	802	7	0.01	56382	99.88					
728	8	0.01	56120	99.41	803	2	0.00	56384	99.88					
729	14	0.02	56134	99.44	804	4	0.01	56388	99.89					
730	4	0.01	56138	99.44	805	2	0.00	56390	99.89					
731	13	0.02	56151	99.47	806	2	0.00	56392	99.89					
732	5	0.01	56156	99.48	809	2	0.00	56394	99.90					
733	5	0.01	56161	99.48	813	8	0.01	56402	99.91					
734	10	0.02	56171	99.50	815	19	0.03	56421	99.95					

**Table 174. Reading 7 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	442	0.78	442	0.78	390	1	0.00	531	0.94	440	13	0.02	825	1.45
302	1	0.00	443	0.78	391	2	0.00	533	0.94	441	9	0.02	834	1.47
309	1	0.00	444	0.78	392	1	0.00	534	0.94	442	10	0.02	844	1.49
311	1	0.00	445	0.78	393	6	0.01	540	0.95	443	7	0.01	851	1.50
313	1	0.00	446	0.79	394	4	0.01	544	0.96	444	13	0.02	864	1.52
317	1	0.00	447	0.79	395	3	0.01	547	0.96	445	14	0.02	878	1.55
318	1	0.00	448	0.79	396	3	0.01	550	0.97	446	10	0.02	888	1.56
324	1	0.00	449	0.79	397	6	0.01	556	0.98	447	12	0.02	900	1.59
331	3	0.01	452	0.80	398	7	0.01	563	0.99	448	13	0.02	913	1.61
332	1	0.00	453	0.80	399	2	0.00	565	1.00	449	11	0.02	924	1.63
334	2	0.00	455	0.80	400	1	0.00	566	1.00	450	17	0.03	941	1.66
335	2	0.00	457	0.81	401	6	0.01	572	1.01	451	15	0.03	956	1.68
337	1	0.00	458	0.81	402	6	0.01	578	1.02	452	22	0.04	978	1.72
338	1	0.00	459	0.81	403	9	0.02	587	1.03	453	24	0.04	1002	1.77
342	3	0.01	462	0.81	404	3	0.01	590	1.04	454	19	0.03	1021	1.80
343	2	0.00	464	0.82	405	3	0.01	593	1.04	455	14	0.02	1035	1.82
345	1	0.00	465	0.82	406	6	0.01	599	1.06	456	20	0.04	1055	1.86
346	2	0.00	467	0.82	407	9	0.02	608	1.07	457	13	0.02	1068	1.88
347	1	0.00	468	0.82	408	8	0.01	616	1.09	458	18	0.03	1086	1.91
349	1	0.00	469	0.83	409	3	0.01	619	1.09	459	23	0.04	1109	1.95
351	1	0.00	470	0.83	410	6	0.01	625	1.10	460	24	0.04	1133	2.00
352	1	0.00	471	0.83	411	8	0.01	633	1.12	461	16	0.03	1149	2.02
353	1	0.00	472	0.83	412	1	0.00	634	1.12	462	14	0.02	1163	2.05
354	1	0.00	473	0.83	413	3	0.01	637	1.12	463	29	0.05	1192	2.10
355	1	0.00	474	0.84	414	5	0.01	642	1.13	464	19	0.03	1211	2.13
359	3	0.01	477	0.84	415	5	0.01	647	1.14	465	15	0.03	1226	2.16
360	1	0.00	478	0.84	416	8	0.01	655	1.15	466	22	0.04	1248	2.20
361	3	0.01	481	0.85	417	4	0.01	659	1.16	467	18	0.03	1266	2.23
363	1	0.00	482	0.85	418	2	0.00	661	1.16	468	26	0.05	1292	2.28
365	1	0.00	483	0.85	419	4	0.01	665	1.17	469	20	0.04	1312	2.31
366	2	0.00	485	0.85	420	11	0.02	676	1.19	470	12	0.02	1324	2.33
368	2	0.00	487	0.86	421	6	0.01	682	1.20	471	17	0.03	1341	2.36
369	1	0.00	488	0.86	422	8	0.01	690	1.22	472	15	0.03	1356	2.39
371	1	0.00	489	0.86	423	7	0.01	697	1.23	473	15	0.03	1371	2.42
372	3	0.01	492	0.87	424	6	0.01	703	1.24	474	24	0.04	1395	2.46
373	1	0.00	493	0.87	425	4	0.01	707	1.25	475	32	0.06	1427	2.51
375	3	0.01	496	0.87	426	5	0.01	712	1.25	476	18	0.03	1445	2.55
376	1	0.00	497	0.88	427	7	0.01	719	1.27	477	22	0.04	1467	2.58
377	4	0.01	501	0.88	428	11	0.02	730	1.29	478	21	0.04	1488	2.62
378	3	0.01	504	0.89	429	10	0.02	740	1.30	479	25	0.04	1513	2.67
379	1	0.00	505	0.89	430	12	0.02	752	1.32	480	25	0.04	1538	2.71
380	2	0.00	507	0.89	431	7	0.01	759	1.34	481	18	0.03	1556	2.74
381	3	0.01	510	0.90	432	3	0.01	762	1.34	482	29	0.05	1585	2.79
382	3	0.01	513	0.90	433	3	0.01	765	1.35	483	28	0.05	1613	2.84
383	1	0.00	514	0.91	434	6	0.01	771	1.36	484	34	0.06	1647	2.90
384	5	0.01	519	0.91	435	8	0.01	779	1.37	485	29	0.05	1676	2.95
385	5	0.01	524	0.92	436	9	0.02	788	1.39	486	35	0.06	1711	3.01
386	1	0.00	525	0.92	437	4	0.01	792	1.40	487	40	0.07	1751	3.08
387	2	0.00	527	0.93	438	11	0.02	803	1.41	488	33	0.06	1784	3.14
388	3	0.01	530	0.93	439	9	0.02	812	1.43	489	34	0.06	1818	3.20

**Table 174. Reading 7 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
490	26	0.05	1844	3.25	540	100	0.18	4586	8.08	590	211	0.37	11613	20.46
491	34	0.06	1878	3.31	541	74	0.13	4660	8.21	591	208	0.37	11821	20.82
492	41	0.07	1919	3.38	542	99	0.17	4759	8.38	592	212	0.37	12033	21.20
493	47	0.08	1966	3.46	543	99	0.17	4858	8.56	593	211	0.37	12244	21.57
494	36	0.06	2002	3.53	544	74	0.13	4932	8.69	594	221	0.39	12465	21.96
495	29	0.05	2031	3.58	545	96	0.17	5028	8.86	595	233	0.41	12698	22.37
496	51	0.09	2082	3.67	546	103	0.18	5131	9.04	596	236	0.42	12934	22.79
497	31	0.05	2113	3.72	547	96	0.17	5227	9.21	597	269	0.47	13203	23.26
498	37	0.07	2150	3.79	548	89	0.16	5316	9.36	598	267	0.47	13470	23.73
499	50	0.09	2200	3.88	549	107	0.19	5423	9.55	599	221	0.39	13691	24.12
500	41	0.07	2241	3.95	550	97	0.17	5520	9.72	600	252	0.44	13943	24.56
501	48	0.08	2289	4.03	551	93	0.16	5613	9.89	601	252	0.44	14195	25.01
502	44	0.08	2333	4.11	552	96	0.17	5709	10.06	602	264	0.47	14459	25.47
503	38	0.07	2371	4.18	553	100	0.18	5809	10.23	603	266	0.47	14725	25.94
504	32	0.06	2403	4.23	554	98	0.17	5907	10.41	604	249	0.44	14974	26.38
505	43	0.08	2446	4.31	555	125	0.22	6032	10.63	605	272	0.48	15246	26.86
506	44	0.08	2490	4.39	556	116	0.20	6148	10.83	606	250	0.44	15496	27.30
507	38	0.07	2528	4.45	557	110	0.19	6258	11.02	607	306	0.54	15802	27.84
508	36	0.06	2564	4.52	558	136	0.24	6394	11.26	608	285	0.50	16087	28.34
509	54	0.10	2618	4.61	559	125	0.22	6519	11.48	609	283	0.50	16370	28.84
510	45	0.08	2663	4.69	560	123	0.22	6642	11.70	610	264	0.47	16634	29.30
511	46	0.08	2709	4.77	561	139	0.24	6781	11.95	611	297	0.52	16931	29.83
512	32	0.06	2741	4.83	562	109	0.19	6890	12.14	612	281	0.50	17212	30.32
513	57	0.10	2798	4.93	563	128	0.23	7018	12.36	613	289	0.51	17501	30.83
514	48	0.08	2846	5.01	564	131	0.23	7149	12.59	614	325	0.57	17826	31.40
515	47	0.08	2893	5.10	565	138	0.24	7287	12.84	615	300	0.53	18126	31.93
516	47	0.08	2940	5.18	566	143	0.25	7430	13.09	616	328	0.58	18454	32.51
517	53	0.09	2993	5.27	567	147	0.26	7577	13.35	617	336	0.59	18790	33.10
518	46	0.08	3039	5.35	568	145	0.26	7722	13.60	618	273	0.48	19063	33.58
519	63	0.11	3102	5.46	569	144	0.25	7866	13.86	619	356	0.63	19419	34.21
520	55	0.10	3157	5.56	570	129	0.23	7995	14.08	620	341	0.60	19760	34.81
521	62	0.11	3219	5.67	571	162	0.29	8157	14.37	621	319	0.56	20079	35.37
522	67	0.12	3286	5.79	572	156	0.27	8313	14.64	622	302	0.53	20381	35.90
523	60	0.11	3346	5.89	573	148	0.26	8461	14.91	623	346	0.61	20727	36.51
524	59	0.10	3405	6.00	574	148	0.26	8609	15.17	624	301	0.53	21028	37.04
525	67	0.12	3472	6.12	575	148	0.26	8757	15.43	625	317	0.56	21345	37.60
526	60	0.11	3532	6.22	576	166	0.29	8923	15.72	626	334	0.59	21679	38.19
527	63	0.11	3595	6.33	577	183	0.32	9106	16.04	627	377	0.66	22056	38.85
528	73	0.13	3668	6.46	578	171	0.30	9277	16.34	628	344	0.61	22400	39.46
529	60	0.11	3728	6.57	579	163	0.29	9440	16.63	629	351	0.62	22751	40.08
530	64	0.11	3792	6.68	580	195	0.34	9635	16.97	630	337	0.59	23088	40.67
531	68	0.12	3860	6.80	581	201	0.35	9836	17.33	631	359	0.63	23447	41.31
532	87	0.15	3947	6.95	582	194	0.34	10030	17.67	632	343	0.60	23790	41.91
533	63	0.11	4010	7.06	583	183	0.32	10213	17.99	633	361	0.64	24151	42.55
534	93	0.16	4103	7.23	584	211	0.37	10424	18.36	634	381	0.67	24532	43.22
535	65	0.11	4168	7.34	585	191	0.34	10615	18.70	635	337	0.59	24869	43.81
536	82	0.14	4250	7.49	586	202	0.36	10817	19.06	636	374	0.66	25243	44.47
537	66	0.12	4316	7.60	587	187	0.33	11004	19.39	637	379	0.67	25622	45.14
538	89	0.16	4405	7.76	588	198	0.35	11202	19.73	638	379	0.67	26001	45.80
539	81	0.14	4486	7.90	589	200	0.35	11402	20.09	639	397	0.70	26398	46.50

**Table 174. Reading 7 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
640	376	0.66	26774	47.17	687	318	0.56	44369	78.16	734	107	0.19	54596	96.18
641	404	0.71	27178	47.88	688	310	0.55	44679	78.71	735	77	0.14	54673	96.31
642	351	0.62	27529	48.50	689	326	0.57	45005	79.28	736	102	0.18	54775	96.49
643	390	0.69	27919	49.18	690	318	0.56	45323	79.84	737	92	0.16	54867	96.66
644	396	0.70	28315	49.88	691	330	0.58	45653	80.42	738	87	0.15	54954	96.81
645	405	0.71	28720	50.59	692	312	0.55	45965	80.97	739	94	0.17	55048	96.98
646	362	0.64	29082	51.23	693	310	0.55	46275	81.52	740	96	0.17	55144	97.14
647	374	0.66	29456	51.89	694	322	0.57	46597	82.09	741	88	0.16	55232	97.30
648	360	0.63	29816	52.53	695	261	0.46	46858	82.55	742	68	0.12	55300	97.42
649	392	0.69	30208	53.22	696	302	0.53	47160	83.08	743	57	0.10	55357	97.52
650	400	0.70	30608	53.92	697	301	0.53	47461	83.61	744	66	0.12	55423	97.64
651	412	0.73	31020	54.65	698	287	0.51	47748	84.12	745	53	0.09	55476	97.73
652	383	0.67	31403	55.32	699	314	0.55	48062	84.67	746	55	0.10	55531	97.83
653	418	0.74	31821	56.06	700	271	0.48	48333	85.15	747	59	0.10	55590	97.93
654	384	0.68	32205	56.73	701	283	0.50	48616	85.64	748	55	0.10	55645	98.03
655	359	0.63	32564	57.37	702	252	0.44	48868	86.09	749	70	0.12	55715	98.15
656	384	0.68	32948	58.04	703	253	0.45	49121	86.53	750	37	0.07	55752	98.22
657	425	0.75	33373	58.79	704	263	0.46	49384	87.00	751	63	0.11	55815	98.33
658	361	0.64	33734	59.43	705	254	0.45	49638	87.44	752	46	0.08	55861	98.41
659	420	0.74	34154	60.17	706	234	0.41	49872	87.86	753	42	0.07	55903	98.48
660	368	0.65	34522	60.82	707	258	0.45	50130	88.31	754	57	0.10	55960	98.58
661	360	0.63	34882	61.45	708	243	0.43	50373	88.74	755	40	0.07	56000	98.65
662	404	0.71	35286	62.16	709	245	0.43	50618	89.17	756	43	0.08	56043	98.73
663	373	0.66	35659	62.82	710	219	0.39	50837	89.56	757	30	0.05	56073	98.78
664	334	0.59	35993	63.41	711	202	0.36	51039	89.91	758	32	0.06	56105	98.84
665	404	0.71	36397	64.12	712	203	0.36	51242	90.27	759	33	0.06	56138	98.90
666	401	0.71	36798	64.83	713	235	0.41	51477	90.68	760	34	0.06	56172	98.96
667	335	0.59	37133	65.42	714	214	0.38	51691	91.06	761	31	0.05	56203	99.01
668	356	0.63	37489	66.04	715	197	0.35	51888	91.41	762	24	0.04	56227	99.05
669	386	0.68	37875	66.72	716	166	0.29	52054	91.70	763	23	0.04	56250	99.09
670	396	0.70	38271	67.42	717	191	0.34	52245	92.04	764	23	0.04	56273	99.13
671	368	0.65	38639	68.07	718	176	0.31	52421	92.35	765	22	0.04	56295	99.17
672	378	0.67	39017	68.73	719	203	0.36	52624	92.71	766	21	0.04	56316	99.21
673	374	0.66	39391	69.39	720	156	0.27	52780	92.98	767	21	0.04	56337	99.25
674	370	0.65	39761	70.04	721	168	0.30	52948	93.28	768	25	0.04	56362	99.29
675	363	0.64	40124	70.68	722	152	0.27	53100	93.54	769	21	0.04	56383	99.33
676	373	0.66	40497	71.34	723	156	0.27	53256	93.82	770	10	0.02	56393	99.34
677	395	0.70	40892	72.04	724	131	0.23	53387	94.05	771	17	0.03	56410	99.37
678	362	0.64	41254	72.68	725	145	0.26	53532	94.30	772	16	0.03	56426	99.40
679	347	0.61	41601	73.29	726	141	0.25	53673	94.55	773	21	0.04	56447	99.44
680	368	0.65	41969	73.93	727	118	0.21	53791	94.76	774	22	0.04	56469	99.48
681	352	0.62	42321	74.55	728	123	0.22	53914	94.98	775	16	0.03	56485	99.51
682	341	0.60	42662	75.16	729	130	0.23	54044	95.21	776	13	0.02	56498	99.53
683	353	0.62	43015	75.78	730	126	0.22	54170	95.43	777	20	0.04	56518	99.56
684	347	0.61	43362	76.39	731	112	0.20	54282	95.63	778	11	0.02	56529	99.58
685	358	0.63	43720	77.02	732	112	0.20	54394	95.82	779	13	0.02	56542	99.61
686	331	0.58	44051	77.60	733	95	0.17	54489	95.99	780	13	0.02	56555	99.63

**Table 174. Reading 7 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
781	12	0.02	56567	99.65	846	1	0.00	56758	99.99
782	5	0.01	56572	99.66	855	1	0.00	56759	99.99
783	8	0.01	56580	99.67	867	1	0.00	56760	99.99
784	10	0.02	56590	99.69	870	1	0.00	56761	99.99
785	9	0.02	56599	99.71	874	1	0.00	56762	99.99
786	8	0.01	56607	99.72	885	2	0.00	56764	100.00
787	7	0.01	56614	99.73	897	1	0.00	56765	100.00
788	8	0.01	56622	99.75					
789	9	0.02	56631	99.76					
790	4	0.01	56635	99.77					
791	3	0.01	56638	99.78					
792	2	0.00	56640	99.78					
793	11	0.02	56651	99.80					
794	7	0.01	56658	99.81					
795	7	0.01	56665	99.82					
796	1	0.00	56666	99.83					
797	4	0.01	56670	99.83					
799	4	0.01	56674	99.84					
800	4	0.01	56678	99.85					
801	5	0.01	56683	99.86					
802	5	0.01	56688	99.86					
803	5	0.01	56693	99.87					
804	6	0.01	56699	99.88					
805	4	0.01	56703	99.89					
806	4	0.01	56707	99.90					
807	2	0.00	56709	99.90					
808	4	0.01	56713	99.91					
809	2	0.00	56715	99.91					
810	2	0.00	56717	99.92					
811	1	0.00	56718	99.92					
812	4	0.01	56722	99.92					
813	3	0.01	56725	99.93					
814	3	0.01	56728	99.93					
815	1	0.00	56729	99.94					
816	2	0.00	56731	99.94					
817	2	0.00	56733	99.94					
818	3	0.01	56736	99.95					
820	1	0.00	56737	99.95					
821	3	0.01	56740	99.96					
822	2	0.00	56742	99.96					
823	1	0.00	56743	99.96					
825	2	0.00	56745	99.96					
827	1	0.00	56746	99.97					
828	1	0.00	56747	99.97					
830	2	0.00	56749	99.97					
831	2	0.00	56751	99.98					
833	1	0.00	56752	99.98					
834	1	0.00	56753	99.98					
835	2	0.00	56755	99.98					
844	2	0.00	56757	99.99					



**Table 175. Writing 7 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
240	26	0.05	26	0.05	325	4	0.01	111	0.20	375	8	0.01	416	0.73
242	1	0.00	27	0.05	326	3	0.01	114	0.20	376	17	0.03	433	0.76
246	1	0.00	28	0.05	327	4	0.01	118	0.21	377	7	0.01	440	0.78
249	1	0.00	29	0.05	328	4	0.01	122	0.21	378	12	0.02	452	0.80
250	2	0.00	31	0.05	329	5	0.01	127	0.22	379	16	0.03	468	0.82
251	3	0.01	34	0.06	330	1	0.00	128	0.23	380	16	0.03	484	0.85
256	1	0.00	35	0.06	331	2	0.00	130	0.23	381	13	0.02	497	0.88
257	3	0.01	38	0.07	332	2	0.00	132	0.23	382	18	0.03	515	0.91
258	1	0.00	39	0.07	333	5	0.01	137	0.24	383	21	0.04	536	0.94
259	1	0.00	40	0.07	334	3	0.01	140	0.25	384	10	0.02	546	0.96
260	1	0.00	41	0.07	335	3	0.01	143	0.25	385	12	0.02	558	0.98
264	1	0.00	42	0.07	336	6	0.01	149	0.26	386	17	0.03	575	1.01
265	1	0.00	43	0.08	337	6	0.01	155	0.27	387	21	0.04	596	1.05
269	1	0.00	44	0.08	338	2	0.00	157	0.28	388	19	0.03	615	1.08
272	1	0.00	45	0.08	339	1	0.00	158	0.28	389	12	0.02	627	1.10
276	2	0.00	47	0.08	340	5	0.01	163	0.29	390	15	0.03	642	1.13
277	1	0.00	48	0.08	341	3	0.01	166	0.29	391	22	0.04	664	1.17
280	1	0.00	49	0.09	342	3	0.01	169	0.30	392	14	0.02	678	1.19
281	1	0.00	50	0.09	343	4	0.01	173	0.30	393	21	0.04	699	1.23
283	1	0.00	51	0.09	344	2	0.00	175	0.31	394	15	0.03	714	1.26
284	2	0.00	53	0.09	345	6	0.01	181	0.32	395	29	0.05	743	1.31
285	2	0.00	55	0.10	346	6	0.01	187	0.33	396	21	0.04	764	1.35
287	1	0.00	56	0.10	347	2	0.00	189	0.33	397	16	0.03	780	1.37
289	1	0.00	57	0.10	348	7	0.01	196	0.35	398	20	0.04	800	1.41
291	1	0.00	58	0.10	349	4	0.01	200	0.35	399	25	0.04	825	1.45
292	1	0.00	59	0.10	350	8	0.01	208	0.37	400	29	0.05	854	1.50
293	1	0.00	60	0.11	351	3	0.01	211	0.37	401	26	0.05	880	1.55
294	1	0.00	61	0.11	352	11	0.02	222	0.39	402	15	0.03	895	1.58
295	1	0.00	62	0.11	353	6	0.01	228	0.40	403	28	0.05	923	1.63
296	1	0.00	63	0.11	354	6	0.01	234	0.41	404	24	0.04	947	1.67
297	3	0.01	66	0.12	355	5	0.01	239	0.42	405	23	0.04	970	1.71
299	1	0.00	67	0.12	356	11	0.02	250	0.44	406	33	0.06	1003	1.77
301	2	0.00	69	0.12	357	7	0.01	257	0.45	407	38	0.07	1041	1.83
303	1	0.00	70	0.12	358	3	0.01	260	0.46	408	27	0.05	1068	1.88
305	1	0.00	71	0.13	359	9	0.02	269	0.47	409	24	0.04	1092	1.92
306	1	0.00	72	0.13	360	6	0.01	275	0.48	410	34	0.06	1126	1.98
309	3	0.01	75	0.13	361	6	0.01	281	0.49	411	36	0.06	1162	2.05
310	2	0.00	77	0.14	362	5	0.01	286	0.50	412	36	0.06	1198	2.11
311	2	0.00	79	0.14	363	7	0.01	293	0.52	413	32	0.06	1230	2.17
312	2	0.00	81	0.14	364	8	0.01	301	0.53	414	37	0.07	1267	2.23
313	3	0.01	84	0.15	365	6	0.01	307	0.54	415	37	0.07	1304	2.30
314	1	0.00	85	0.15	366	9	0.02	316	0.56	416	43	0.08	1347	2.37
315	3	0.01	88	0.16	367	12	0.02	328	0.58	417	41	0.07	1388	2.44
316	1	0.00	89	0.16	368	7	0.01	335	0.59	418	32	0.06	1420	2.50
317	2	0.00	91	0.16	369	9	0.02	344	0.61	419	59	0.10	1479	2.61
319	5	0.01	96	0.17	370	8	0.01	352	0.62	420	40	0.07	1519	2.68
321	2	0.00	98	0.17	371	10	0.02	362	0.64	421	59	0.10	1578	2.78
322	4	0.01	102	0.18	372	22	0.04	384	0.68	422	40	0.07	1618	2.85
323	4	0.01	106	0.19	373	14	0.02	398	0.70	423	48	0.08	1666	2.93
324	1	0.00	107	0.19	374	10	0.02	408	0.72	424	52	0.09	1718	3.03

**Table 175. Writing 7 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
425	56	0.10	1774	3.12	475	145	0.26	6794	11.97	525	262	0.46	18307	32.25
426	64	0.11	1838	3.24	476	156	0.27	6950	12.24	526	301	0.53	18608	32.78
427	54	0.10	1892	3.33	477	167	0.29	7117	12.54	527	331	0.58	18939	33.36
428	40	0.07	1932	3.40	478	176	0.31	7293	12.85	528	309	0.54	19248	33.91
429	53	0.09	1985	3.50	479	144	0.25	7437	13.10	529	322	0.57	19570	34.47
430	63	0.11	2048	3.61	480	140	0.25	7577	13.35	530	313	0.55	19883	35.02
431	59	0.10	2107	3.71	481	174	0.31	7751	13.65	531	314	0.55	20197	35.58
432	72	0.13	2179	3.84	482	188	0.33	7939	13.98	532	312	0.55	20509	36.13
433	69	0.12	2248	3.96	483	197	0.35	8136	14.33	533	297	0.52	20806	36.65
434	70	0.12	2318	4.08	484	165	0.29	8301	14.62	534	293	0.52	21099	37.17
435	57	0.10	2375	4.18	485	210	0.37	8511	14.99	535	324	0.57	21423	37.74
436	62	0.11	2437	4.29	486	162	0.29	8673	15.28	536	339	0.60	21762	38.33
437	77	0.14	2514	4.43	487	200	0.35	8873	15.63	537	303	0.53	22065	38.87
438	72	0.13	2586	4.56	488	172	0.30	9045	15.93	538	296	0.52	22361	39.39
439	87	0.15	2673	4.71	489	201	0.35	9246	16.29	539	334	0.59	22695	39.98
440	80	0.14	2753	4.85	490	178	0.31	9424	16.60	540	301	0.53	22996	40.51
441	77	0.14	2830	4.99	491	217	0.38	9641	16.98	541	334	0.59	23330	41.10
442	70	0.12	2900	5.11	492	187	0.33	9828	17.31	542	344	0.61	23674	41.70
443	81	0.14	2981	5.25	493	237	0.42	10065	17.73	543	338	0.60	24012	42.30
444	100	0.18	3081	5.43	494	215	0.38	10280	18.11	544	315	0.55	24327	42.85
445	77	0.14	3158	5.56	495	193	0.34	10473	18.45	545	312	0.55	24639	43.40
446	92	0.16	3250	5.72	496	228	0.40	10701	18.85	546	328	0.58	24967	43.98
447	100	0.18	3350	5.90	497	239	0.42	10940	19.27	547	344	0.61	25311	44.59
448	98	0.17	3448	6.07	498	210	0.37	11150	19.64	548	338	0.60	25649	45.18
449	112	0.20	3560	6.27	499	225	0.40	11375	20.04	549	320	0.56	25969	45.75
450	75	0.13	3635	6.40	500	212	0.37	11587	20.41	550	337	0.59	26306	46.34
451	106	0.19	3741	6.59	501	246	0.43	11833	20.84	551	333	0.59	26639	46.93
452	121	0.21	3862	6.80	502	221	0.39	12054	21.23	552	376	0.66	27015	47.59
453	106	0.19	3968	6.99	503	250	0.44	12304	21.67	553	340	0.60	27355	48.19
454	91	0.16	4059	7.15	504	259	0.46	12563	22.13	554	347	0.61	27702	48.80
455	126	0.22	4185	7.37	505	254	0.45	12817	22.58	555	352	0.62	28054	49.42
456	116	0.20	4301	7.58	506	257	0.45	13074	23.03	556	354	0.62	28408	50.04
457	131	0.23	4432	7.81	507	253	0.45	13327	23.48	557	329	0.58	28737	50.62
458	132	0.23	4564	8.04	508	252	0.44	13579	23.92	558	321	0.57	29058	51.19
459	109	0.19	4673	8.23	509	242	0.43	13821	24.35	559	321	0.57	29379	51.75
460	135	0.24	4808	8.47	510	260	0.46	14081	24.80	560	333	0.59	29712	52.34
461	115	0.20	4923	8.67	511	253	0.45	14334	25.25	561	340	0.60	30052	52.94
462	127	0.22	5050	8.90	512	257	0.45	14591	25.70	562	363	0.64	30415	53.58
463	104	0.18	5154	9.08	513	275	0.48	14866	26.19	563	344	0.61	30759	54.18
464	123	0.22	5277	9.30	514	263	0.46	15129	26.65	564	366	0.64	31125	54.83
465	120	0.21	5397	9.51	515	270	0.48	15399	27.13	565	328	0.58	31453	55.41
466	124	0.22	5521	9.73	516	298	0.52	15697	27.65	566	346	0.61	31799	56.01
467	147	0.26	5668	9.98	517	282	0.50	15979	28.15	567	322	0.57	32121	56.58
468	130	0.23	5798	10.21	518	273	0.48	16252	28.63	568	363	0.64	32484	57.22
469	130	0.23	5928	10.44	519	301	0.53	16553	29.16	569	367	0.65	32851	57.87
470	142	0.25	6070	10.69	520	284	0.50	16837	29.66	570	346	0.61	33197	58.48
471	113	0.20	6183	10.89	521	316	0.56	17153	30.22	571	323	0.57	33520	59.05
472	154	0.27	6337	11.16	522	297	0.52	17450	30.74	572	318	0.56	33838	59.61
473	160	0.28	6497	11.44	523	297	0.52	17747	31.26	573	320	0.56	34158	60.17
474	152	0.27	6649	11.71	524	298	0.52	18045	31.79	574	337	0.59	34495	60.76

**Table 175. Writing 7 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
575	358	0.63	34853	61.39	622	228	0.40	47306	83.33	669	79	0.14	53779	94.73
576	320	0.56	35173	61.96	623	179	0.32	47485	83.65	670	73	0.13	53852	94.86
577	308	0.54	35481	62.50	624	188	0.33	47673	83.98	671	79	0.14	53931	95.00
578	324	0.57	35805	63.07	625	205	0.36	47878	84.34	672	75	0.13	54006	95.13
579	319	0.56	36124	63.63	626	186	0.33	48064	84.67	673	57	0.10	54063	95.23
580	336	0.59	36460	64.23	627	183	0.32	48247	84.99	674	76	0.13	54139	95.37
581	320	0.56	36780	64.79	628	183	0.32	48430	85.31	675	78	0.14	54217	95.50
582	345	0.61	37125	65.40	629	177	0.31	48607	85.62	676	76	0.13	54293	95.64
583	295	0.52	37420	65.92	630	184	0.32	48791	85.95	677	66	0.12	54359	95.75
584	311	0.55	37731	66.46	631	183	0.32	48974	86.27	678	68	0.12	54427	95.87
585	342	0.60	38073	67.07	632	171	0.30	49145	86.57	679	54	0.10	54481	95.97
586	306	0.54	38379	67.61	633	168	0.30	49313	86.87	680	86	0.15	54567	96.12
587	275	0.48	38654	68.09	634	161	0.28	49474	87.15	681	56	0.10	54623	96.22
588	289	0.51	38943	68.60	635	191	0.34	49665	87.49	682	52	0.09	54675	96.31
589	318	0.56	39261	69.16	636	154	0.27	49819	87.76	683	56	0.10	54731	96.41
590	269	0.47	39530	69.63	637	183	0.32	50002	88.08	684	52	0.09	54783	96.50
591	274	0.48	39804	70.12	638	166	0.29	50168	88.37	685	58	0.10	54841	96.60
592	288	0.51	40092	70.62	639	157	0.28	50325	88.65	686	51	0.09	54892	96.69
593	270	0.48	40362	71.10	640	174	0.31	50499	88.96	687	43	0.08	54935	96.77
594	248	0.44	40610	71.54	641	158	0.28	50657	89.23	688	44	0.08	54979	96.85
595	277	0.49	40887	72.02	642	149	0.26	50806	89.50	689	63	0.11	55042	96.96
596	262	0.46	41149	72.48	643	138	0.24	50944	89.74	690	50	0.09	55092	97.05
597	282	0.50	41431	72.98	644	147	0.26	51091	90.00	691	30	0.05	55122	97.10
598	257	0.45	41688	73.43	645	153	0.27	51244	90.27	692	47	0.08	55169	97.18
599	260	0.46	41948	73.89	646	153	0.27	51397	90.54	693	49	0.09	55218	97.27
600	257	0.45	42205	74.35	647	124	0.22	51521	90.76	694	57	0.10	55275	97.37
601	263	0.46	42468	74.81	648	121	0.21	51642	90.97	695	44	0.08	55319	97.45
602	245	0.43	42713	75.24	649	111	0.20	51753	91.16	696	29	0.05	55348	97.50
603	231	0.41	42944	75.65	650	137	0.24	51890	91.41	697	49	0.09	55397	97.58
604	254	0.45	43198	76.09	651	122	0.21	52012	91.62	698	53	0.09	55450	97.68
605	230	0.41	43428	76.50	652	116	0.20	52128	91.82	699	40	0.07	55490	97.75
606	244	0.43	43672	76.93	653	122	0.21	52250	92.04	700	48	0.08	55538	97.83
607	248	0.44	43920	77.37	654	120	0.21	52370	92.25	701	26	0.05	55564	97.88
608	240	0.42	44160	77.79	655	112	0.20	52482	92.45	702	33	0.06	55597	97.94
609	233	0.41	44393	78.20	656	101	0.18	52583	92.63	703	34	0.06	55631	98.00
610	258	0.45	44651	78.65	657	97	0.17	52680	92.80	704	26	0.05	55657	98.04
611	241	0.42	44892	79.08	658	114	0.20	52794	93.00	705	30	0.05	55687	98.09
612	229	0.40	45121	79.48	659	101	0.18	52895	93.18	706	33	0.06	55720	98.15
613	221	0.39	45342	79.87	660	134	0.24	53029	93.41	707	27	0.05	55747	98.20
614	240	0.42	45582	80.29	661	64	0.11	53093	93.52	708	34	0.06	55781	98.26
615	229	0.40	45811	80.70	662	92	0.16	53185	93.69	709	40	0.07	55821	98.33
616	248	0.44	46059	81.13	663	82	0.14	53267	93.83	710	20	0.04	55841	98.37
617	217	0.38	46276	81.52	664	100	0.18	53367	94.01	711	33	0.06	55874	98.42
618	218	0.38	46494	81.90	665	81	0.14	53448	94.15	712	17	0.03	55891	98.45
619	200	0.35	46694	82.25	666	91	0.16	53539	94.31	713	19	0.03	55910	98.49
620	202	0.36	46896	82.61	667	77	0.14	53616	94.45	714	27	0.05	55937	98.53
621	182	0.32	47078	82.93	668	84	0.15	53700	94.59	715	22	0.04	55959	98.57

**Table 175. Writing 7 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
716	14	0.02	55973	98.60	766	4	0.01	56540	99.60	820	1	0.00	56697	99.87
717	22	0.04	55995	98.64	767	5	0.01	56545	99.61	821	4	0.01	56701	99.88
718	32	0.06	56027	98.69	768	2	0.00	56547	99.61	826	2	0.00	56703	99.88
719	16	0.03	56043	98.72	769	6	0.01	56553	99.62	828	1	0.00	56704	99.89
720	14	0.02	56057	98.75	770	7	0.01	56560	99.63	830	5	0.01	56709	99.89
721	12	0.02	56069	98.77	771	6	0.01	56566	99.64	831	5	0.01	56714	99.90
722	23	0.04	56092	98.81	772	2	0.00	56568	99.65	833	1	0.00	56715	99.90
723	25	0.04	56117	98.85	773	3	0.01	56571	99.65	839	3	0.01	56718	99.91
724	15	0.03	56132	98.88	774	3	0.01	56574	99.66	840	3	0.01	56721	99.92
725	10	0.02	56142	98.90	775	2	0.00	56576	99.66	844	1	0.00	56722	99.92
726	19	0.03	56161	98.93	776	2	0.00	56578	99.66	849	1	0.00	56723	99.92
727	15	0.03	56176	98.96	777	5	0.01	56583	99.67	850	1	0.00	56724	99.92
728	15	0.03	56191	98.98	778	6	0.01	56589	99.68	851	2	0.00	56726	99.92
729	15	0.03	56206	99.01	779	4	0.01	56593	99.69	857	1	0.00	56727	99.93
730	21	0.04	56227	99.05	780	6	0.01	56599	99.70	859	1	0.00	56728	99.93
731	7	0.01	56234	99.06	781	4	0.01	56603	99.71	864	5	0.01	56733	99.94
732	9	0.02	56243	99.07	782	1	0.00	56604	99.71	871	4	0.01	56737	99.94
733	7	0.01	56250	99.09	783	16	0.03	56620	99.74	874	1	0.00	56738	99.95
734	11	0.02	56261	99.11	784	2	0.00	56622	99.74	876	2	0.00	56740	99.95
735	14	0.02	56275	99.13	785	3	0.01	56625	99.75	886	2	0.00	56742	99.95
736	18	0.03	56293	99.16	786	3	0.01	56628	99.75	890	27	0.05	56769	100.00
737	10	0.02	56303	99.18	787	5	0.01	56633	99.76					
738	18	0.03	56321	99.21	788	1	0.00	56634	99.76					
739	8	0.01	56329	99.22	789	1	0.00	56635	99.76					
740	12	0.02	56341	99.25	790	2	0.00	56637	99.77					
741	15	0.03	56356	99.27	791	3	0.01	56640	99.77					
742	8	0.01	56364	99.29	792	4	0.01	56644	99.78					
743	11	0.02	56375	99.31	793	6	0.01	56650	99.79					
744	11	0.02	56386	99.33	794	1	0.00	56651	99.79					
745	5	0.01	56391	99.33	795	2	0.00	56653	99.80					
746	8	0.01	56399	99.35	796	2	0.00	56655	99.80					
747	4	0.01	56403	99.36	797	1	0.00	56656	99.80					
748	12	0.02	56415	99.38	798	4	0.01	56660	99.81					
749	8	0.01	56423	99.39	799	1	0.00	56661	99.81					
750	4	0.01	56427	99.40	800	1	0.00	56662	99.81					
751	4	0.01	56431	99.40	801	1	0.00	56663	99.81					
752	8	0.01	56439	99.42	802	1	0.00	56664	99.82					
753	7	0.01	56446	99.43	803	3	0.01	56667	99.82					
754	5	0.01	56451	99.44	804	2	0.00	56669	99.82					
755	12	0.02	56463	99.46	805	4	0.01	56673	99.83					
756	4	0.01	56467	99.47	807	1	0.00	56674	99.83					
757	4	0.01	56471	99.48	808	3	0.01	56677	99.84					
758	11	0.02	56482	99.49	809	3	0.01	56680	99.84					
759	15	0.03	56497	99.52	810	3	0.01	56683	99.85					
760	3	0.01	56500	99.53	811	1	0.00	56684	99.85					
761	8	0.01	56508	99.54	812	4	0.01	56688	99.86					
762	9	0.02	56517	99.56	813	1	0.00	56689	99.86					
763	6	0.01	56523	99.57	814	2	0.00	56691	99.86					
764	5	0.01	56528	99.58	816	2	0.00	56693	99.87					
765	8	0.01	56536	99.59	818	3	0.01	56696	99.87					

**Table 176. Mathematics 7 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
280	218	0.38	218	0.38	331	7	0.01	392	0.69	381	11	0.02	881	1.55
281	3	0.01	221	0.39	332	7	0.01	399	0.70	382	16	0.03	897	1.58
282	2	0.00	223	0.39	333	13	0.02	412	0.72	383	21	0.04	918	1.61
283	4	0.01	227	0.40	334	4	0.01	416	0.73	384	16	0.03	934	1.64
284	4	0.01	231	0.41	335	8	0.01	424	0.75	385	16	0.03	950	1.67
285	2	0.00	233	0.41	336	5	0.01	429	0.75	386	12	0.02	962	1.69
286	2	0.00	235	0.41	337	11	0.02	440	0.77	387	19	0.03	981	1.73
287	1	0.00	236	0.42	338	15	0.03	455	0.80	388	17	0.03	998	1.76
288	4	0.01	240	0.42	339	7	0.01	462	0.81	389	25	0.04	1023	1.80
289	4	0.01	244	0.43	340	5	0.01	467	0.82	390	18	0.03	1041	1.83
291	1	0.00	245	0.43	341	8	0.01	475	0.84	391	15	0.03	1056	1.86
292	2	0.00	247	0.43	342	7	0.01	482	0.85	392	21	0.04	1077	1.89
293	3	0.01	250	0.44	343	9	0.02	491	0.86	393	21	0.04	1098	1.93
294	4	0.01	254	0.45	344	12	0.02	503	0.88	394	22	0.04	1120	1.97
295	4	0.01	258	0.45	345	4	0.01	507	0.89	395	24	0.04	1144	2.01
296	5	0.01	263	0.46	346	5	0.01	512	0.90	396	17	0.03	1161	2.04
297	4	0.01	267	0.47	347	10	0.02	522	0.92	397	26	0.05	1187	2.09
298	3	0.01	270	0.47	348	3	0.01	525	0.92	398	28	0.05	1215	2.14
299	1	0.00	271	0.48	349	12	0.02	537	0.94	399	24	0.04	1239	2.18
300	2	0.00	273	0.48	350	4	0.01	541	0.95	400	26	0.05	1265	2.23
301	2	0.00	275	0.48	351	7	0.01	548	0.96	401	29	0.05	1294	2.28
302	4	0.01	279	0.49	352	7	0.01	555	0.98	402	30	0.05	1324	2.33
303	4	0.01	283	0.50	353	6	0.01	561	0.99	403	24	0.04	1348	2.37
304	4	0.01	287	0.50	354	8	0.01	569	1.00	404	26	0.05	1374	2.42
305	6	0.01	293	0.52	355	11	0.02	580	1.02	405	34	0.06	1408	2.48
306	1	0.00	294	0.52	356	6	0.01	586	1.03	406	33	0.06	1441	2.53
307	5	0.01	299	0.53	357	5	0.01	591	1.04	407	29	0.05	1470	2.59
308	2	0.00	301	0.53	358	8	0.01	599	1.05	408	32	0.06	1502	2.64
309	1	0.00	302	0.53	359	10	0.02	609	1.07	409	28	0.05	1530	2.69
310	3	0.01	305	0.54	360	13	0.02	622	1.09	410	31	0.05	1561	2.75
311	1	0.00	306	0.54	361	13	0.02	635	1.12	411	25	0.04	1586	2.79
312	3	0.01	309	0.54	362	7	0.01	642	1.13	412	22	0.04	1608	2.83
313	4	0.01	313	0.55	363	9	0.02	651	1.15	413	40	0.07	1648	2.90
314	4	0.01	317	0.56	364	10	0.02	661	1.16	414	22	0.04	1670	2.94
315	3	0.01	320	0.56	365	10	0.02	671	1.18	415	26	0.05	1696	2.98
316	6	0.01	326	0.57	366	14	0.02	685	1.20	416	48	0.08	1744	3.07
317	5	0.01	331	0.58	367	14	0.02	699	1.23	417	37	0.07	1781	3.13
318	3	0.01	334	0.59	368	14	0.02	713	1.25	418	36	0.06	1817	3.20
319	3	0.01	337	0.59	369	10	0.02	723	1.27	419	42	0.07	1859	3.27
320	6	0.01	343	0.60	370	14	0.02	737	1.30	420	39	0.07	1898	3.34
321	4	0.01	347	0.61	371	10	0.02	747	1.31	421	38	0.07	1936	3.41
322	4	0.01	351	0.62	372	13	0.02	760	1.34	422	44	0.08	1980	3.48
323	2	0.00	353	0.62	373	16	0.03	776	1.37	423	40	0.07	2020	3.55
324	6	0.01	359	0.63	374	12	0.02	788	1.39	424	40	0.07	2060	3.62
325	3	0.01	362	0.64	375	15	0.03	803	1.41	425	50	0.09	2110	3.71
326	4	0.01	366	0.64	376	11	0.02	814	1.43	426	41	0.07	2151	3.78
327	3	0.01	369	0.65	377	11	0.02	825	1.45	427	60	0.11	2211	3.89
328	2	0.00	371	0.65	378	13	0.02	838	1.47	428	57	0.10	2268	3.99
329	9	0.02	380	0.67	379	13	0.02	851	1.50	429	53	0.09	2321	4.08
330	5	0.01	385	0.68	380	19	0.03	870	1.53	430	50	0.09	2371	4.17

**Table 176. Mathematics 7 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
431	46	0.08	2417	4.25	481	170	0.30	7360	12.95	531	295	0.52	19232	33.83
432	63	0.11	2480	4.36	482	152	0.27	7512	13.21	532	292	0.51	19524	34.34
433	57	0.10	2537	4.46	483	164	0.29	7676	13.50	533	299	0.53	19823	34.87
434	45	0.08	2582	4.54	484	153	0.27	7829	13.77	534	309	0.54	20132	35.41
435	52	0.09	2634	4.63	485	171	0.30	8000	14.07	535	316	0.56	20448	35.97
436	61	0.11	2695	4.74	486	168	0.30	8168	14.37	536	337	0.59	20785	36.56
437	76	0.13	2771	4.87	487	171	0.30	8339	14.67	537	281	0.49	21066	37.06
438	63	0.11	2834	4.99	488	199	0.35	8538	15.02	538	302	0.53	21368	37.59
439	68	0.12	2902	5.10	489	165	0.29	8703	15.31	539	360	0.63	21728	38.22
440	74	0.13	2976	5.24	490	201	0.35	8904	15.66	540	303	0.53	22031	38.75
441	62	0.11	3038	5.34	491	206	0.36	9110	16.03	541	326	0.57	22357	39.33
442	63	0.11	3101	5.45	492	188	0.33	9298	16.36	542	318	0.56	22675	39.89
443	80	0.14	3181	5.60	493	189	0.33	9487	16.69	543	330	0.58	23005	40.47
444	78	0.14	3259	5.73	494	208	0.37	9695	17.05	544	332	0.58	23337	41.05
445	84	0.15	3343	5.88	495	219	0.39	9914	17.44	545	345	0.61	23682	41.66
446	64	0.11	3407	5.99	496	211	0.37	10125	17.81	546	338	0.59	24020	42.25
447	75	0.13	3482	6.13	497	219	0.39	10344	18.20	547	339	0.60	24359	42.85
448	76	0.13	3558	6.26	498	220	0.39	10564	18.58	548	345	0.61	24704	43.46
449	70	0.12	3628	6.38	499	200	0.35	10764	18.94	549	363	0.64	25067	44.10
450	84	0.15	3712	6.53	500	228	0.40	10992	19.34	550	342	0.60	25409	44.70
451	89	0.16	3801	6.69	501	233	0.41	11225	19.75	551	316	0.56	25725	45.25
452	77	0.14	3878	6.82	502	219	0.39	11444	20.13	552	290	0.51	26015	45.76
453	79	0.14	3957	6.96	503	214	0.38	11658	20.51	553	309	0.54	26324	46.31
454	78	0.14	4035	7.10	504	227	0.40	11885	20.91	554	360	0.63	26684	46.94
455	70	0.12	4105	7.22	505	235	0.41	12120	21.32	555	314	0.55	26998	47.49
456	113	0.20	4218	7.42	506	240	0.42	12360	21.74	556	352	0.62	27350	48.11
457	81	0.14	4299	7.56	507	233	0.41	12593	22.15	557	326	0.57	27676	48.69
458	92	0.16	4391	7.72	508	248	0.44	12841	22.59	558	320	0.56	27996	49.25
459	85	0.15	4476	7.87	509	240	0.42	13081	23.01	559	340	0.60	28336	49.85
460	110	0.19	4586	8.07	510	237	0.42	13318	23.43	560	321	0.56	28657	50.41
461	121	0.21	4707	8.28	511	236	0.42	13554	23.84	561	347	0.61	29004	51.02
462	95	0.17	4802	8.45	512	251	0.44	13805	24.28	562	316	0.56	29320	51.58
463	118	0.21	4920	8.65	513	243	0.43	14048	24.71	563	349	0.61	29669	52.19
464	94	0.17	5014	8.82	514	256	0.45	14304	25.16	564	350	0.62	30019	52.81
465	112	0.20	5126	9.02	515	275	0.48	14579	25.65	565	303	0.53	30322	53.34
466	132	0.23	5258	9.25	516	290	0.51	14869	26.16	566	333	0.59	30655	53.93
467	143	0.25	5401	9.50	517	282	0.50	15151	26.65	567	365	0.64	31020	54.57
468	111	0.20	5512	9.70	518	292	0.51	15443	27.17	568	311	0.55	31331	55.11
469	127	0.22	5639	9.92	519	276	0.49	15719	27.65	569	335	0.59	31666	55.70
470	138	0.24	5777	10.16	520	250	0.44	15969	28.09	570	329	0.58	31995	56.28
471	130	0.23	5907	10.39	521	288	0.51	16257	28.60	571	347	0.61	32342	56.89
472	126	0.22	6033	10.61	522	294	0.52	16551	29.11	572	337	0.59	32679	57.49
473	151	0.27	6184	10.88	523	284	0.50	16835	29.61	573	349	0.61	33028	58.10
474	130	0.23	6314	11.11	524	292	0.51	17127	30.13	574	301	0.53	33329	58.63
475	122	0.21	6436	11.32	525	319	0.56	17446	30.69	575	337	0.59	33666	59.22
476	146	0.26	6582	11.58	526	294	0.52	17740	31.21	576	314	0.55	33980	59.77
477	146	0.26	6728	11.84	527	279	0.49	18019	31.70	577	344	0.61	34324	60.38
478	157	0.28	6885	12.11	528	302	0.53	18321	32.23	578	316	0.56	34640	60.94
479	151	0.27	7036	12.38	529	299	0.53	18620	32.75	579	308	0.54	34948	61.48
480	154	0.27	7190	12.65	530	317	0.56	18937	33.31	580	328	0.58	35276	62.05

**Table 176. Mathematics 7 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
581	298	0.52	35574	62.58	628	221	0.39	48412	85.16	675	68	0.12	54950	96.66
582	355	0.62	35929	63.20	629	213	0.37	48625	85.54	676	65	0.11	55015	96.78
583	312	0.55	36241	63.75	630	205	0.36	48830	85.90	677	67	0.12	55082	96.90
584	322	0.57	36563	64.32	631	216	0.38	49046	86.28	678	72	0.13	55154	97.02
585	291	0.51	36854	64.83	632	193	0.34	49239	86.62	679	47	0.08	55201	97.10
586	342	0.60	37196	65.43	633	205	0.36	49444	86.98	680	72	0.13	55273	97.23
587	320	0.56	37516	65.99	634	209	0.37	49653	87.34	681	59	0.10	55332	97.33
588	323	0.57	37839	66.56	635	189	0.33	49842	87.68	682	61	0.11	55393	97.44
589	333	0.59	38172	67.15	636	180	0.32	50022	87.99	683	66	0.12	55459	97.56
590	294	0.52	38466	67.67	637	182	0.32	50204	88.31	684	51	0.09	55510	97.65
591	326	0.57	38792	68.24	638	158	0.28	50362	88.59	685	46	0.08	55556	97.73
592	325	0.57	39117	68.81	639	187	0.33	50549	88.92	686	53	0.09	55609	97.82
593	324	0.57	39441	69.38	640	157	0.28	50706	89.20	687	44	0.08	55653	97.90
594	299	0.53	39740	69.91	641	207	0.36	50913	89.56	688	41	0.07	55694	97.97
595	312	0.55	40052	70.46	642	180	0.32	51093	89.88	689	40	0.07	55734	98.04
596	297	0.52	40349	70.98	643	156	0.27	51249	90.15	690	48	0.08	55782	98.13
597	282	0.50	40631	71.47	644	145	0.26	51394	90.41	691	48	0.08	55830	98.21
598	260	0.46	40891	71.93	645	180	0.32	51574	90.72	692	32	0.06	55862	98.27
599	295	0.52	41186	72.45	646	165	0.29	51739	91.01	693	41	0.07	55903	98.34
600	270	0.47	41456	72.93	647	145	0.26	51884	91.27	694	31	0.05	55934	98.39
601	278	0.49	41734	73.41	648	144	0.25	52028	91.52	695	29	0.05	55963	98.44
602	275	0.48	42009	73.90	649	153	0.27	52181	91.79	696	40	0.07	56003	98.52
603	317	0.56	42326	74.46	650	150	0.26	52331	92.06	697	34	0.06	56037	98.58
604	257	0.45	42583	74.91	651	142	0.25	52473	92.31	698	31	0.05	56068	98.63
605	282	0.50	42865	75.40	652	137	0.24	52610	92.55	699	27	0.05	56095	98.68
606	251	0.44	43116	75.85	653	140	0.25	52750	92.79	700	19	0.03	56114	98.71
607	269	0.47	43385	76.32	654	135	0.24	52885	93.03	701	27	0.05	56141	98.76
608	250	0.44	43635	76.76	655	122	0.21	53007	93.25	702	29	0.05	56170	98.81
609	269	0.47	43904	77.23	656	132	0.23	53139	93.48	703	32	0.06	56202	98.87
610	251	0.44	44155	77.67	657	111	0.20	53250	93.67	704	24	0.04	56226	98.91
611	254	0.45	44409	78.12	658	130	0.23	53380	93.90	705	28	0.05	56254	98.96
612	224	0.39	44633	78.51	659	126	0.22	53506	94.12	706	21	0.04	56275	98.99
613	246	0.43	44879	78.95	660	123	0.22	53629	94.34	707	20	0.04	56295	99.03
614	244	0.43	45123	79.38	661	108	0.19	53737	94.53	708	25	0.04	56320	99.07
615	246	0.43	45369	79.81	662	81	0.14	53818	94.67	709	23	0.04	56343	99.11
616	225	0.40	45594	80.20	663	99	0.17	53917	94.85	710	21	0.04	56364	99.15
617	244	0.43	45838	80.63	664	91	0.16	54008	95.01	711	25	0.04	56389	99.19
618	245	0.43	46083	81.06	665	111	0.20	54119	95.20	712	16	0.03	56405	99.22
619	249	0.44	46332	81.50	666	96	0.17	54215	95.37	713	19	0.03	56424	99.26
620	234	0.41	46566	81.91	667	105	0.18	54320	95.55	714	17	0.03	56441	99.29
621	240	0.42	46806	82.34	668	83	0.15	54403	95.70	715	13	0.02	56454	99.31
622	230	0.40	47036	82.74	669	84	0.15	54487	95.85	716	13	0.02	56467	99.33
623	220	0.39	47256	83.13	670	98	0.17	54585	96.02	717	14	0.02	56481	99.36
624	253	0.45	47509	83.57	671	76	0.13	54661	96.15	718	17	0.03	56498	99.39
625	219	0.39	47728	83.96	672	76	0.13	54737	96.29	719	16	0.03	56514	99.41
626	222	0.39	47950	84.35	673	63	0.11	54800	96.40	720	14	0.02	56528	99.44
627	241	0.42	48191	84.77	674	82	0.14	54882	96.54	721	11	0.02	56539	99.46

**Table 176. Mathematics 7 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
722	8	0.01	56547	99.47	772	1	0.00	56794	99.91
723	8	0.01	56555	99.49	774	1	0.00	56795	99.91
724	13	0.02	56568	99.51	775	3	0.01	56798	99.91
725	10	0.02	56578	99.53	777	1	0.00	56799	99.92
726	15	0.03	56593	99.55	780	1	0.00	56800	99.92
727	11	0.02	56604	99.57	781	2	0.00	56802	99.92
728	7	0.01	56611	99.58	782	3	0.01	56805	99.93
729	10	0.02	56621	99.60	784	1	0.00	56806	99.93
730	10	0.02	56631	99.62	786	3	0.01	56809	99.93
731	7	0.01	56638	99.63	787	1	0.00	56810	99.93
732	4	0.01	56642	99.64	789	2	0.00	56812	99.94
733	3	0.01	56645	99.64	797	1	0.00	56813	99.94
734	8	0.01	56653	99.66	799	1	0.00	56814	99.94
735	7	0.01	56660	99.67	801	3	0.01	56817	99.95
736	9	0.02	56669	99.69	804	1	0.00	56818	99.95
737	3	0.01	56672	99.69	806	1	0.00	56819	99.95
738	7	0.01	56679	99.70	810	2	0.00	56821	99.95
739	7	0.01	56686	99.72	828	1	0.00	56822	99.96
740	4	0.01	56690	99.72	831	1	0.00	56823	99.96
741	5	0.01	56695	99.73	833	1	0.00	56824	99.96
742	7	0.01	56702	99.74	838	7	0.01	56831	99.97
743	3	0.01	56705	99.75	860	16	0.03	56847	100.00
744	2	0.00	56707	99.75					
745	1	0.00	56708	99.76					
746	4	0.01	56712	99.76					
747	5	0.01	56717	99.77					
748	5	0.01	56722	99.78					
749	5	0.01	56727	99.79					
750	2	0.00	56729	99.79					
751	2	0.00	56731	99.80					
752	1	0.00	56732	99.80					
753	5	0.01	56737	99.81					
754	3	0.01	56740	99.81					
755	6	0.01	56746	99.82					
756	7	0.01	56753	99.83					
757	4	0.01	56757	99.84					
758	4	0.01	56761	99.85					
759	4	0.01	56765	99.86					
760	1	0.00	56766	99.86					
761	2	0.00	56768	99.86					
762	1	0.00	56769	99.86					
763	5	0.01	56774	99.87					
764	2	0.00	56776	99.88					
765	1	0.00	56777	99.88					
766	2	0.00	56779	99.88					
767	1	0.00	56780	99.88					
768	6	0.01	56786	99.89					
769	4	0.01	56790	99.90					
770	1	0.00	56791	99.90					
771	2	0.00	56793	99.91					



**Table 177. Reading 8 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
330	182	0.32	182	0.32	415	1	0.00	280	0.49	466	9	0.02	538	0.93
340	2	0.00	184	0.32	416	1	0.00	281	0.49	467	11	0.02	549	0.95
342	1	0.00	185	0.32	417	2	0.00	283	0.49	468	10	0.02	559	0.97
344	1	0.00	186	0.32	418	4	0.01	287	0.50	469	9	0.02	568	0.99
347	1	0.00	187	0.32	419	2	0.00	289	0.50	470	10	0.02	578	1.00
349	1	0.00	188	0.33	420	3	0.01	292	0.51	471	13	0.02	591	1.03
353	3	0.01	191	0.33	421	4	0.01	296	0.51	472	16	0.03	607	1.05
355	1	0.00	192	0.33	422	6	0.01	302	0.52	473	9	0.02	616	1.07
358	1	0.00	193	0.34	423	3	0.01	305	0.53	474	9	0.02	625	1.08
361	3	0.01	196	0.34	424	2	0.00	307	0.53	475	15	0.03	640	1.11
364	1	0.00	197	0.34	426	3	0.01	310	0.54	476	7	0.01	647	1.12
366	1	0.00	198	0.34	427	4	0.01	314	0.55	477	13	0.02	660	1.15
367	2	0.00	200	0.35	428	1	0.00	315	0.55	478	17	0.03	677	1.18
369	1	0.00	201	0.35	429	1	0.00	316	0.55	479	16	0.03	693	1.20
370	2	0.00	203	0.35	430	5	0.01	321	0.56	480	11	0.02	704	1.22
371	3	0.01	206	0.36	431	2	0.00	323	0.56	481	14	0.02	718	1.25
372	2	0.00	208	0.36	432	3	0.01	326	0.57	482	13	0.02	731	1.27
373	5	0.01	213	0.37	433	3	0.01	329	0.57	483	12	0.02	743	1.29
374	2	0.00	215	0.37	434	5	0.01	334	0.58	484	19	0.03	762	1.32
375	1	0.00	216	0.37	435	2	0.00	336	0.58	485	10	0.02	772	1.34
381	1	0.00	217	0.38	436	2	0.00	338	0.59	486	15	0.03	787	1.37
383	1	0.00	218	0.38	437	3	0.01	341	0.59	487	14	0.02	801	1.39
384	1	0.00	219	0.38	438	6	0.01	347	0.60	488	20	0.03	821	1.43
385	1	0.00	220	0.38	439	6	0.01	353	0.61	489	20	0.03	841	1.46
387	2	0.00	222	0.39	440	5	0.01	358	0.62	490	33	0.06	874	1.52
388	2	0.00	224	0.39	441	6	0.01	364	0.63	491	24	0.04	898	1.56
389	3	0.01	227	0.39	442	9	0.02	373	0.65	492	19	0.03	917	1.59
390	2	0.00	229	0.40	443	3	0.01	376	0.65	493	23	0.04	940	1.63
391	1	0.00	230	0.40	444	1	0.00	377	0.65	494	16	0.03	956	1.66
392	1	0.00	231	0.40	445	8	0.01	385	0.67	495	21	0.04	977	1.70
393	1	0.00	232	0.40	446	6	0.01	391	0.68	496	23	0.04	1000	1.74
394	2	0.00	234	0.41	447	8	0.01	399	0.69	497	25	0.04	1025	1.78
395	2	0.00	236	0.41	448	2	0.00	401	0.70	498	17	0.03	1042	1.81
396	1	0.00	237	0.41	449	3	0.01	404	0.70	499	16	0.03	1058	1.84
397	3	0.01	240	0.42	450	8	0.01	412	0.72	500	22	0.04	1080	1.87
398	2	0.00	242	0.42	451	7	0.01	419	0.73	501	21	0.04	1101	1.91
399	1	0.00	243	0.42	452	7	0.01	426	0.74	502	29	0.05	1130	1.96
402	2	0.00	245	0.43	453	1	0.00	427	0.74	503	25	0.04	1155	2.01
403	1	0.00	246	0.43	454	6	0.01	433	0.75	504	18	0.03	1173	2.04
404	2	0.00	248	0.43	455	7	0.01	440	0.76	505	21	0.04	1194	2.07
405	2	0.00	250	0.43	456	8	0.01	448	0.78	506	30	0.05	1224	2.12
406	2	0.00	252	0.44	457	12	0.02	460	0.80	507	34	0.06	1258	2.18
407	2	0.00	254	0.44	458	11	0.02	471	0.82	508	28	0.05	1286	2.23
408	4	0.01	258	0.45	459	12	0.02	483	0.84	509	31	0.05	1317	2.29
409	5	0.01	263	0.46	460	5	0.01	488	0.85	510	28	0.05	1345	2.33
410	2	0.00	265	0.46	461	7	0.01	495	0.86	511	39	0.07	1384	2.40
411	6	0.01	271	0.47	462	8	0.01	503	0.87	512	46	0.08	1430	2.48
412	1	0.00	272	0.47	463	6	0.01	509	0.88	513	31	0.05	1461	2.54
413	4	0.01	276	0.48	464	13	0.02	522	0.91	514	39	0.07	1500	2.60
414	3	0.01	279	0.48	465	7	0.01	529	0.92	515	34	0.06	1534	2.66

**Table 177. Reading 8 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
516	45	0.08	1579	2.74	566	130	0.23	5505	9.56	616	299	0.52	15852	27.52
517	51	0.09	1630	2.83	567	131	0.23	5636	9.78	617	310	0.54	16162	28.06
518	47	0.08	1677	2.91	568	141	0.24	5777	10.03	618	319	0.55	16481	28.61
519	47	0.08	1724	2.99	569	137	0.24	5914	10.27	619	321	0.56	16802	29.17
520	46	0.08	1770	3.07	570	149	0.26	6063	10.53	620	309	0.54	17111	29.70
521	40	0.07	1810	3.14	571	157	0.27	6220	10.80	621	320	0.56	17431	30.26
522	50	0.09	1860	3.23	572	130	0.23	6350	11.02	622	293	0.51	17724	30.77
523	53	0.09	1913	3.32	573	135	0.23	6485	11.26	623	341	0.59	18065	31.36
524	45	0.08	1958	3.40	574	155	0.27	6640	11.53	624	361	0.63	18426	31.99
525	58	0.10	2016	3.50	575	153	0.27	6793	11.79	625	328	0.57	18754	32.56
526	51	0.09	2067	3.59	576	150	0.26	6943	12.05	626	341	0.59	19095	33.15
527	65	0.11	2132	3.70	577	154	0.27	7097	12.32	627	333	0.58	19428	33.73
528	42	0.07	2174	3.77	578	158	0.27	7255	12.59	628	338	0.59	19766	34.31
529	56	0.10	2230	3.87	579	162	0.28	7417	12.88	629	359	0.62	20125	34.94
530	60	0.10	2290	3.98	580	161	0.28	7578	13.16	630	313	0.54	20438	35.48
531	61	0.11	2351	4.08	581	155	0.27	7733	13.42	631	365	0.63	20803	36.11
532	46	0.08	2397	4.16	582	180	0.31	7913	13.74	632	339	0.59	21142	36.70
533	59	0.10	2456	4.26	583	176	0.31	8089	14.04	633	360	0.62	21502	37.33
534	51	0.09	2507	4.35	584	177	0.31	8266	14.35	634	376	0.65	21878	37.98
535	55	0.10	2562	4.45	585	164	0.28	8430	14.63	635	318	0.55	22196	38.53
536	59	0.10	2621	4.55	586	189	0.33	8619	14.96	636	340	0.59	22536	39.12
537	68	0.12	2689	4.67	587	203	0.35	8822	15.31	637	327	0.57	22863	39.69
538	68	0.12	2757	4.79	588	195	0.34	9017	15.65	638	347	0.60	23210	40.29
539	78	0.14	2835	4.92	589	181	0.31	9198	15.97	639	356	0.62	23566	40.91
540	68	0.12	2903	5.04	590	197	0.34	9395	16.31	640	374	0.65	23940	41.56
541	74	0.13	2977	5.17	591	203	0.35	9598	16.66	641	377	0.65	24317	42.21
542	88	0.15	3065	5.32	592	198	0.34	9796	17.01	642	352	0.61	24669	42.82
543	83	0.14	3148	5.46	593	214	0.37	10010	17.38	643	379	0.66	25048	43.48
544	70	0.12	3218	5.59	594	208	0.36	10218	17.74	644	402	0.70	25450	44.18
545	78	0.14	3296	5.72	595	228	0.40	10446	18.13	645	383	0.66	25833	44.85
546	66	0.11	3362	5.84	596	232	0.40	10678	18.54	646	374	0.65	26207	45.49
547	80	0.14	3442	5.98	597	234	0.41	10912	18.94	647	402	0.70	26609	46.19
548	75	0.13	3517	6.11	598	236	0.41	11148	19.35	648	379	0.66	26988	46.85
549	85	0.15	3602	6.25	599	254	0.44	11402	19.79	649	396	0.69	27384	47.54
550	114	0.20	3716	6.45	600	237	0.41	11639	20.20	650	404	0.70	27788	48.24
551	96	0.17	3812	6.62	601	224	0.39	11863	20.59	651	414	0.72	28202	48.96
552	87	0.15	3899	6.77	602	227	0.39	12090	20.99	652	410	0.71	28612	49.67
553	102	0.18	4001	6.95	603	215	0.37	12305	21.36	653	388	0.67	29000	50.34
554	94	0.16	4095	7.11	604	223	0.39	12528	21.75	654	383	0.66	29383	51.01
555	112	0.19	4207	7.30	605	252	0.44	12780	22.19	655	405	0.70	29788	51.71
556	95	0.16	4302	7.47	606	254	0.44	13034	22.63	656	389	0.68	30177	52.39
557	106	0.18	4408	7.65	607	278	0.48	13312	23.11	657	396	0.69	30573	53.07
558	93	0.16	4501	7.81	608	266	0.46	13578	23.57	658	414	0.72	30987	53.79
559	122	0.21	4623	8.03	609	263	0.46	13841	24.03	659	406	0.70	31393	54.50
560	117	0.20	4740	8.23	610	284	0.49	14125	24.52	660	405	0.70	31798	55.20
561	117	0.20	4857	8.43	611	280	0.49	14405	25.01	661	382	0.66	32180	55.86
562	132	0.23	4989	8.66	612	300	0.52	14705	25.53	662	387	0.67	32567	56.54
563	136	0.24	5125	8.90	613	265	0.46	14970	25.99	663	380	0.66	32947	57.19
564	123	0.21	5248	9.11	614	283	0.49	15253	26.48	664	385	0.67	33332	57.86
565	127	0.22	5375	9.33	615	300	0.52	15553	27.00	665	394	0.68	33726	58.55

**Table 177. Reading 8 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
666	427	0.74	34153	59.29	716	253	0.44	51491	89.39	766	17	0.03	57185	99.27
667	399	0.69	34552	59.98	717	221	0.38	51712	89.77	767	22	0.04	57207	99.31
668	393	0.68	34945	60.66	718	245	0.43	51957	90.20	768	28	0.05	57235	99.36
669	399	0.69	35344	61.36	719	219	0.38	52176	90.58	769	26	0.05	57261	99.40
670	426	0.74	35770	62.10	720	212	0.37	52388	90.94	770	21	0.04	57282	99.44
671	436	0.76	36206	62.85	721	197	0.34	52585	91.29	771	19	0.03	57301	99.47
672	418	0.73	36624	63.58	722	207	0.36	52792	91.64	772	21	0.04	57322	99.51
673	386	0.67	37010	64.25	723	190	0.33	52982	91.97	773	21	0.04	57343	99.55
674	347	0.60	37357	64.85	724	216	0.37	53198	92.35	774	22	0.04	57365	99.58
675	369	0.64	37726	65.49	725	186	0.32	53384	92.67	775	13	0.02	57378	99.61
676	418	0.73	38144	66.22	726	204	0.35	53588	93.03	776	17	0.03	57395	99.64
677	380	0.66	38524	66.88	727	169	0.29	53757	93.32	777	15	0.03	57410	99.66
678	395	0.69	38919	67.56	728	167	0.29	53924	93.61	778	12	0.02	57422	99.68
679	378	0.66	39297	68.22	729	169	0.29	54093	93.90	779	16	0.03	57438	99.71
680	401	0.70	39698	68.91	730	170	0.30	54263	94.20	780	8	0.01	57446	99.72
681	407	0.71	40105	69.62	731	176	0.31	54439	94.50	781	4	0.01	57450	99.73
682	403	0.70	40508	70.32	732	140	0.24	54579	94.75	782	21	0.04	57471	99.77
683	399	0.69	40907	71.01	733	159	0.28	54738	95.02	783	13	0.02	57484	99.79
684	378	0.66	41285	71.67	734	135	0.23	54873	95.26	784	8	0.01	57492	99.80
685	389	0.68	41674	72.34	735	114	0.20	54987	95.46	785	7	0.01	57499	99.82
686	373	0.65	42047	72.99	736	134	0.23	55121	95.69	786	9	0.02	57508	99.83
687	372	0.65	42419	73.64	737	142	0.25	55263	95.93	787	4	0.01	57512	99.84
688	381	0.66	42800	74.30	738	129	0.22	55392	96.16	788	4	0.01	57516	99.85
689	358	0.62	43158	74.92	739	129	0.22	55521	96.38	789	1	0.00	57517	99.85
690	395	0.69	43553	75.61	740	113	0.20	55634	96.58	790	6	0.01	57523	99.86
691	384	0.67	43937	76.27	741	99	0.17	55733	96.75	791	7	0.01	57530	99.87
692	372	0.65	44309	76.92	742	101	0.18	55834	96.93	792	3	0.01	57533	99.88
693	341	0.59	44650	77.51	743	97	0.17	55931	97.09	793	2	0.00	57535	99.88
694	344	0.60	44994	78.11	744	100	0.17	56031	97.27	794	1	0.00	57536	99.88
695	337	0.59	45331	78.69	745	93	0.16	56124	97.43	795	1	0.00	57537	99.88
696	345	0.60	45676	79.29	746	84	0.15	56208	97.57	796	2	0.00	57539	99.89
697	324	0.56	46000	79.85	747	79	0.14	56287	97.71	797	4	0.01	57543	99.89
698	321	0.56	46321	80.41	748	69	0.12	56356	97.83	798	6	0.01	57549	99.90
699	306	0.53	46627	80.94	749	59	0.10	56415	97.93	799	2	0.00	57551	99.91
700	353	0.61	46980	81.56	750	59	0.10	56474	98.04	800	3	0.01	57554	99.91
701	321	0.56	47301	82.11	751	62	0.11	56536	98.14	801	3	0.01	57557	99.92
702	285	0.49	47586	82.61	752	65	0.11	56601	98.26	802	1	0.00	57558	99.92
703	312	0.54	47898	83.15	753	51	0.09	56652	98.35	803	3	0.01	57561	99.92
704	260	0.45	48158	83.60	754	46	0.08	56698	98.43					
705	328	0.57	48486	84.17	755	48	0.08	56746	98.51					
706	321	0.56	48807	84.73	756	61	0.11	56807	98.61					
707	311	0.54	49118	85.27	757	60	0.10	56867	98.72					
708	289	0.50	49407	85.77	758	47	0.08	56914	98.80					
709	272	0.47	49679	86.24	759	46	0.08	56960	98.88					
710	249	0.43	49928	86.67	760	41	0.07	57001	98.95					
711	267	0.46	50195	87.14	761	33	0.06	57034	99.01					
712	267	0.46	50462	87.60	762	41	0.07	57075	99.08					
713	256	0.44	50718	88.04	763	34	0.06	57109	99.14					
714	280	0.49	50998	88.53	764	33	0.06	57142	99.20					
715	240	0.42	51238	88.95	765	26	0.05	57168	99.24					

**Table 177. Reading 8 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq.</b>	<b>%</b>	<b>Cum. Freq.</b>	<b>Cum. %</b>
804	4	0.01	57565	99.93
805	4	0.01	57569	99.94
806	2	0.00	57571	99.94
807	1	0.00	57572	99.94
808	3	0.01	57575	99.95
809	2	0.00	57577	99.95
810	4	0.01	57581	99.96
811	1	0.00	57582	99.96
812	1	0.00	57583	99.96
813	2	0.00	57585	99.97
816	2	0.00	57587	99.97
817	2	0.00	57589	99.97
818	3	0.01	57592	99.98
820	1	0.00	57593	99.98
821	1	0.00	57594	99.98
822	1	0.00	57595	99.98
824	1	0.00	57596	99.98
831	2	0.00	57598	99.99
836	1	0.00	57599	99.99
838	1	0.00	57600	99.99
839	1	0.00	57601	99.99
850	1	0.00	57602	99.99
851	1	0.00	57603	100.00
900	1	0.00	57604	100.00
990	1	0.00	57605	100.00

**Table 178. Writing 8 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
250	62	0.11	62	0.11	321	3	0.01	157	0.27	371	13	0.02	491	0.85
251	1	0.00	63	0.11	322	5	0.01	162	0.28	372	15	0.03	506	0.88
253	3	0.01	66	0.11	323	5	0.01	167	0.29	373	15	0.03	521	0.90
254	1	0.00	67	0.12	324	4	0.01	171	0.30	374	18	0.03	539	0.94
255	3	0.01	70	0.12	325	4	0.01	175	0.30	375	14	0.02	553	0.96
257	3	0.01	73	0.13	326	3	0.01	178	0.31	376	16	0.03	569	0.99
258	2	0.00	75	0.13	327	1	0.00	179	0.31	377	14	0.02	583	1.01
262	1	0.00	76	0.13	328	5	0.01	184	0.32	378	18	0.03	601	1.04
265	2	0.00	78	0.14	329	2	0.00	186	0.32	379	12	0.02	613	1.06
267	1	0.00	79	0.14	330	2	0.00	188	0.33	380	18	0.03	631	1.09
271	1	0.00	80	0.14	331	7	0.01	195	0.34	381	15	0.03	646	1.12
272	2	0.00	82	0.14	332	3	0.01	198	0.34	382	11	0.02	657	1.14
273	1	0.00	83	0.14	333	3	0.01	201	0.35	383	13	0.02	670	1.16
275	1	0.00	84	0.15	334	3	0.01	204	0.35	384	21	0.04	691	1.20
276	1	0.00	85	0.15	335	9	0.02	213	0.37	385	12	0.02	703	1.22
277	3	0.01	88	0.15	336	6	0.01	219	0.38	386	20	0.03	723	1.25
278	1	0.00	89	0.15	337	4	0.01	223	0.39	387	19	0.03	742	1.29
279	1	0.00	90	0.16	338	2	0.00	225	0.39	388	15	0.03	757	1.31
280	4	0.01	94	0.16	339	2	0.00	227	0.39	389	24	0.04	781	1.36
281	2	0.00	96	0.17	340	4	0.01	231	0.40	390	18	0.03	799	1.39
282	1	0.00	97	0.17	341	4	0.01	235	0.41	391	31	0.05	830	1.44
283	1	0.00	98	0.17	342	3	0.01	238	0.41	392	18	0.03	848	1.47
284	1	0.00	99	0.17	343	2	0.00	240	0.42	393	23	0.04	871	1.51
289	1	0.00	100	0.17	344	4	0.01	244	0.42	394	23	0.04	894	1.55
290	1	0.00	101	0.18	345	3	0.01	247	0.43	395	19	0.03	913	1.58
291	1	0.00	102	0.18	346	7	0.01	254	0.44	396	23	0.04	936	1.62
292	1	0.00	103	0.18	347	6	0.01	260	0.45	397	29	0.05	965	1.67
293	1	0.00	104	0.18	348	9	0.02	269	0.47	398	28	0.05	993	1.72
295	1	0.00	105	0.18	349	3	0.01	272	0.47	399	21	0.04	1014	1.76
296	2	0.00	107	0.19	350	11	0.02	283	0.49	400	28	0.05	1042	1.81
297	1	0.00	108	0.19	351	6	0.01	289	0.50	401	26	0.05	1068	1.85
300	3	0.01	111	0.19	352	3	0.01	292	0.51	402	27	0.05	1095	1.90
301	1	0.00	112	0.19	353	6	0.01	298	0.52	403	33	0.06	1128	1.96
302	1	0.00	113	0.20	354	7	0.01	305	0.53	404	33	0.06	1161	2.01
303	1	0.00	114	0.20	355	10	0.02	315	0.55	405	32	0.06	1193	2.07
304	2	0.00	116	0.20	356	8	0.01	323	0.56	406	40	0.07	1233	2.14
305	2	0.00	118	0.20	357	11	0.02	334	0.58	407	36	0.06	1269	2.20
306	5	0.01	123	0.21	358	11	0.02	345	0.60	408	28	0.05	1297	2.25
307	2	0.00	125	0.22	359	4	0.01	349	0.61	409	43	0.07	1340	2.33
308	6	0.01	131	0.23	360	7	0.01	356	0.62	410	31	0.05	1371	2.38
309	5	0.01	136	0.24	361	12	0.02	368	0.64	411	37	0.06	1408	2.44
311	1	0.00	137	0.24	362	15	0.03	383	0.66	412	36	0.06	1444	2.51
312	2	0.00	139	0.24	363	11	0.02	394	0.68	413	35	0.06	1479	2.57
313	1	0.00	140	0.24	364	7	0.01	401	0.70	414	40	0.07	1519	2.64
314	1	0.00	141	0.24	365	15	0.03	416	0.72	415	43	0.07	1562	2.71
316	4	0.01	145	0.25	366	9	0.02	425	0.74	416	43	0.07	1605	2.78
317	2	0.00	147	0.26	367	18	0.03	443	0.77	417	36	0.06	1641	2.85
318	2	0.00	149	0.26	368	16	0.03	459	0.80	418	34	0.06	1675	2.91
319	1	0.00	150	0.26	369	12	0.02	471	0.82	419	56	0.10	1731	3.00
320	4	0.01	154	0.27	370	7	0.01	478	0.83	420	49	0.09	1780	3.09

**Table 178. Writing 8 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
421	56	0.10	1836	3.19	471	143	0.25	6592	11.44	521	312	0.54	17328	30.07
422	43	0.07	1879	3.26	472	164	0.28	6756	11.72	522	289	0.50	17617	30.57
423	54	0.09	1933	3.35	473	144	0.25	6900	11.97	523	296	0.51	17913	31.08
424	54	0.09	1987	3.45	474	162	0.28	7062	12.25	524	301	0.52	18214	31.60
425	59	0.10	2046	3.55	475	147	0.26	7209	12.51	525	300	0.52	18514	32.12
426	64	0.11	2110	3.66	476	162	0.28	7371	12.79	526	280	0.49	18794	32.61
427	66	0.11	2176	3.78	477	149	0.26	7520	13.05	527	296	0.51	19090	33.12
428	62	0.11	2238	3.88	478	142	0.25	7662	13.29	528	273	0.47	19363	33.60
429	56	0.10	2294	3.98	479	181	0.31	7843	13.61	529	309	0.54	19672	34.13
430	72	0.12	2366	4.11	480	169	0.29	8012	13.90	530	318	0.55	19990	34.68
431	65	0.11	2431	4.22	481	178	0.31	8190	14.21	531	294	0.51	20284	35.20
432	47	0.08	2478	4.30	482	177	0.31	8367	14.52	532	293	0.51	20577	35.70
433	74	0.13	2552	4.43	483	186	0.32	8553	14.84	533	310	0.54	20887	36.24
434	61	0.11	2613	4.53	484	188	0.33	8741	15.17	534	304	0.53	21191	36.77
435	68	0.12	2681	4.65	485	192	0.33	8933	15.50	535	317	0.55	21508	37.32
436	69	0.12	2750	4.77	486	174	0.30	9107	15.80	536	327	0.57	21835	37.89
437	77	0.13	2827	4.91	487	189	0.33	9296	16.13	537	323	0.56	22158	38.45
438	75	0.13	2902	5.04	488	180	0.31	9476	16.44	538	317	0.55	22475	39.00
439	79	0.14	2981	5.17	489	204	0.35	9680	16.80	539	286	0.50	22761	39.49
440	78	0.14	3059	5.31	490	181	0.31	9861	17.11	540	317	0.55	23078	40.04
441	63	0.11	3122	5.42	491	216	0.37	10077	17.48	541	314	0.54	23392	40.59
442	83	0.14	3205	5.56	492	225	0.39	10302	17.88	542	278	0.48	23670	41.07
443	97	0.17	3302	5.73	493	199	0.35	10501	18.22	543	360	0.62	24030	41.69
444	96	0.17	3398	5.90	494	184	0.32	10685	18.54	544	347	0.60	24377	42.30
445	87	0.15	3485	6.05	495	183	0.32	10868	18.86	545	340	0.59	24717	42.89
446	96	0.17	3581	6.21	496	211	0.37	11079	19.22	546	297	0.52	25014	43.40
447	81	0.14	3662	6.35	497	217	0.38	11296	19.60	547	306	0.53	25320	43.93
448	84	0.15	3746	6.50	498	231	0.40	11527	20.00	548	304	0.53	25624	44.46
449	92	0.16	3838	6.66	499	216	0.37	11743	20.38	549	316	0.55	25940	45.01
450	96	0.17	3934	6.83	500	219	0.38	11962	20.76	550	344	0.60	26284	45.61
451	103	0.18	4037	7.00	501	230	0.40	12192	21.15	551	308	0.53	26592	46.14
452	98	0.17	4135	7.17	502	229	0.40	12421	21.55	552	351	0.61	26943	46.75
453	113	0.20	4248	7.37	503	222	0.39	12643	21.94	553	329	0.57	27272	47.32
454	96	0.17	4344	7.54	504	255	0.44	12898	22.38	554	315	0.55	27587	47.87
455	107	0.19	4451	7.72	505	252	0.44	13150	22.82	555	340	0.59	27927	48.46
456	120	0.21	4571	7.93	506	211	0.37	13361	23.18	556	342	0.59	28269	49.05
457	112	0.19	4683	8.13	507	245	0.43	13606	23.61	557	352	0.61	28621	49.66
458	133	0.23	4816	8.36	508	234	0.41	13840	24.01	558	326	0.57	28947	50.23
459	118	0.20	4934	8.56	509	262	0.45	14102	24.47	559	330	0.57	29277	50.80
460	139	0.24	5073	8.80	510	241	0.42	14343	24.89	560	381	0.66	29658	51.46
461	149	0.26	5222	9.06	511	257	0.45	14600	25.33	561	322	0.56	29980	52.02
462	111	0.19	5333	9.25	512	250	0.43	14850	25.77	562	312	0.54	30292	52.56
463	117	0.20	5450	9.46	513	280	0.49	15130	26.25	563	327	0.57	30619	53.13
464	126	0.22	5576	9.68	514	279	0.48	15409	26.74	564	338	0.59	30957	53.71
465	144	0.25	5720	9.92	515	259	0.45	15668	27.19	565	323	0.56	31280	54.27
466	136	0.24	5856	10.16	516	242	0.42	15910	27.61	566	347	0.60	31627	54.88
467	132	0.23	5988	10.39	517	248	0.43	16158	28.04	567	358	0.62	31985	55.50
468	134	0.23	6122	10.62	518	273	0.47	16431	28.51	568	347	0.60	32332	56.10
469	157	0.27	6279	10.89	519	290	0.50	16721	29.01	569	324	0.56	32656	56.66
470	170	0.29	6449	11.19	520	295	0.51	17016	29.52	570	331	0.57	32987	57.24

**Table 178. Writing 8 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
571	317	0.55	33304	57.79	618	222	0.39	46663	80.97	665	93	0.16	53867	93.47
572	305	0.53	33609	58.32	619	212	0.37	46875	81.33	666	89	0.15	53956	93.62
573	338	0.59	33947	58.90	620	198	0.34	47073	81.68	667	84	0.15	54040	93.77
574	352	0.61	34299	59.51	621	250	0.43	47323	82.11	668	79	0.14	54119	93.90
575	282	0.49	34581	60.00	622	202	0.35	47525	82.46	669	94	0.16	54213	94.07
576	303	0.53	34884	60.53	623	228	0.40	47753	82.86	670	94	0.16	54307	94.23
577	325	0.56	35209	61.09	624	219	0.38	47972	83.24	671	66	0.11	54373	94.34
578	338	0.59	35547	61.68	625	190	0.33	48162	83.57	672	78	0.14	54451	94.48
579	300	0.52	35847	62.20	626	192	0.33	48354	83.90	673	89	0.15	54540	94.63
580	331	0.57	36178	62.77	627	208	0.36	48562	84.26	674	82	0.14	54622	94.78
581	300	0.52	36478	63.29	628	200	0.35	48762	84.61	675	91	0.16	54713	94.93
582	306	0.53	36784	63.82	629	191	0.33	48953	84.94	676	73	0.13	54786	95.06
583	329	0.57	37113	64.40	630	187	0.32	49140	85.26	677	76	0.13	54862	95.19
584	316	0.55	37429	64.94	631	173	0.30	49313	85.56	678	72	0.12	54934	95.32
585	380	0.66	37809	65.60	632	183	0.32	49496	85.88	679	72	0.12	55006	95.44
586	278	0.48	38087	66.09	633	193	0.33	49689	86.22	680	55	0.10	55061	95.54
587	294	0.51	38381	66.60	634	177	0.31	49866	86.52	681	62	0.11	55123	95.64
588	317	0.55	38698	67.15	635	182	0.32	50048	86.84	682	56	0.10	55179	95.74
589	307	0.53	39005	67.68	636	164	0.28	50212	87.12	683	63	0.11	55242	95.85
590	318	0.55	39323	68.23	637	160	0.28	50372	87.40	684	52	0.09	55294	95.94
591	286	0.50	39609	68.73	638	171	0.30	50543	87.70	685	71	0.12	55365	96.06
592	309	0.54	39918	69.26	639	147	0.26	50690	87.95	686	47	0.08	55412	96.15
593	284	0.49	40202	69.76	640	139	0.24	50829	88.19	687	56	0.10	55468	96.24
594	288	0.50	40490	70.25	641	146	0.25	50975	88.45	688	48	0.08	55516	96.33
595	278	0.48	40768	70.74	642	139	0.24	51114	88.69	689	56	0.10	55572	96.42
596	265	0.46	41033	71.20	643	168	0.29	51282	88.98	690	48	0.08	55620	96.51
597	270	0.47	41303	71.67	644	156	0.27	51438	89.25	691	66	0.11	55686	96.62
598	308	0.53	41611	72.20	645	124	0.22	51562	89.47	692	47	0.08	55733	96.70
599	308	0.53	41919	72.73	646	149	0.26	51711	89.72	693	41	0.07	55774	96.77
600	283	0.49	42202	73.23	647	134	0.23	51845	89.96	694	52	0.09	55826	96.86
601	306	0.53	42508	73.76	648	140	0.24	51985	90.20	695	50	0.09	55876	96.95
602	270	0.47	42778	74.22	649	122	0.21	52107	90.41	696	45	0.08	55921	97.03
603	287	0.50	43065	74.72	650	146	0.25	52253	90.67	697	48	0.08	55969	97.11
604	260	0.45	43325	75.17	651	115	0.20	52368	90.86	698	38	0.07	56007	97.18
605	263	0.46	43588	75.63	652	114	0.20	52482	91.06	699	41	0.07	56048	97.25
606	252	0.44	43840	76.07	653	124	0.22	52606	91.28	700	37	0.06	56085	97.31
607	237	0.41	44077	76.48	654	128	0.22	52734	91.50	701	31	0.05	56116	97.37
608	269	0.47	44346	76.95	655	108	0.19	52842	91.69	702	42	0.07	56158	97.44
609	243	0.42	44589	77.37	656	126	0.22	52968	91.91	703	31	0.05	56189	97.49
610	268	0.47	44857	77.83	657	110	0.19	53078	92.10	704	44	0.08	56233	97.57
611	224	0.39	45081	78.22	658	108	0.19	53186	92.28	705	35	0.06	56268	97.63
612	229	0.40	45310	78.62	659	96	0.17	53282	92.45	706	40	0.07	56308	97.70
613	204	0.35	45514	78.97	660	113	0.20	53395	92.65	707	28	0.05	56336	97.75
614	239	0.41	45753	79.39	661	93	0.16	53488	92.81	708	25	0.04	56361	97.79
615	231	0.40	45984	79.79	662	85	0.15	53573	92.96	709	42	0.07	56403	97.87
616	226	0.39	46210	80.18	663	106	0.18	53679	93.14	710	30	0.05	56433	97.92
617	231	0.40	46441	80.58	664	95	0.16	53774	93.30	711	30	0.05	56463	97.97

**Table 178. Writing 8 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
712	27	0.05	56490	98.02	762	5	0.01	57291	99.41	815	1	0.00	57510	99.79
713	27	0.05	56517	98.06	763	15	0.03	57306	99.43	817	3	0.01	57513	99.79
714	24	0.04	56541	98.11	764	6	0.01	57312	99.44	819	3	0.01	57516	99.80
715	24	0.04	56565	98.15	765	5	0.01	57317	99.45	820	1	0.00	57517	99.80
716	34	0.06	56599	98.21	766	8	0.01	57325	99.47	821	3	0.01	57520	99.80
717	27	0.05	56626	98.25	767	7	0.01	57332	99.48	822	2	0.00	57522	99.81
718	39	0.07	56665	98.32	768	4	0.01	57336	99.48	823	5	0.01	57527	99.82
719	16	0.03	56681	98.35	769	5	0.01	57341	99.49	824	3	0.01	57530	99.82
720	26	0.05	56707	98.39	770	3	0.01	57344	99.50	825	5	0.01	57535	99.83
721	21	0.04	56728	98.43	771	5	0.01	57349	99.51	828	3	0.01	57538	99.84
722	25	0.04	56753	98.47	772	4	0.01	57353	99.51	829	3	0.01	57541	99.84
723	23	0.04	56776	98.51	773	5	0.01	57358	99.52	830	2	0.00	57543	99.84
724	20	0.03	56796	98.55	774	4	0.01	57362	99.53	831	1	0.00	57544	99.85
725	20	0.03	56816	98.58	775	7	0.01	57369	99.54	832	5	0.01	57549	99.85
726	20	0.03	56836	98.62	776	7	0.01	57376	99.55	833	2	0.00	57551	99.86
727	28	0.05	56864	98.67	777	4	0.01	57380	99.56	835	3	0.01	57554	99.86
728	15	0.03	56879	98.69	778	6	0.01	57386	99.57	838	1	0.00	57555	99.86
729	15	0.03	56894	98.72	779	7	0.01	57393	99.58	840	1	0.00	57556	99.87
730	26	0.05	56920	98.76	780	4	0.01	57397	99.59	841	1	0.00	57557	99.87
731	14	0.02	56934	98.79	781	10	0.02	57407	99.61	846	6	0.01	57563	99.88
732	14	0.02	56948	98.81	782	3	0.01	57410	99.61	848	6	0.01	57569	99.89
733	12	0.02	56960	98.83	783	4	0.01	57414	99.62	850	1	0.00	57570	99.89
734	16	0.03	56976	98.86	784	3	0.01	57417	99.63	852	3	0.01	57573	99.90
735	11	0.02	56987	98.88	785	5	0.01	57422	99.63	857	3	0.01	57576	99.90
736	13	0.02	57000	98.90	786	1	0.00	57423	99.64	859	1	0.00	57577	99.90
737	26	0.05	57026	98.95	787	5	0.01	57428	99.64	860	2	0.00	57579	99.91
738	21	0.04	57047	98.98	788	2	0.00	57430	99.65	865	5	0.01	57584	99.91
739	21	0.04	57068	99.02	789	3	0.01	57433	99.65	867	3	0.01	57587	99.92
740	10	0.02	57078	99.04	790	5	0.01	57438	99.66	871	4	0.01	57591	99.93
741	7	0.01	57085	99.05	791	6	0.01	57444	99.67	897	10	0.02	57601	99.94
742	15	0.03	57100	99.08	792	4	0.01	57448	99.68	910	32	0.06	57633	100.00
743	12	0.02	57112	99.10	793	3	0.01	57451	99.68					
744	17	0.03	57129	99.13	794	3	0.01	57454	99.69					
745	10	0.02	57139	99.14	796	4	0.01	57458	99.70					
746	9	0.02	57148	99.16	797	2	0.00	57460	99.70					
747	13	0.02	57161	99.18	798	1	0.00	57461	99.70					
748	13	0.02	57174	99.20	799	5	0.01	57466	99.71					
749	10	0.02	57184	99.22	800	7	0.01	57473	99.72					
750	5	0.01	57189	99.23	801	1	0.00	57474	99.72					
751	10	0.02	57199	99.25	802	1	0.00	57475	99.73					
752	7	0.01	57206	99.26	803	5	0.01	57480	99.73					
753	8	0.01	57214	99.27	805	3	0.01	57483	99.74					
754	5	0.01	57219	99.28	806	9	0.02	57492	99.76					
755	11	0.02	57230	99.30	808	1	0.00	57493	99.76					
756	9	0.02	57239	99.32	809	5	0.01	57498	99.77					
757	16	0.03	57255	99.34	810	3	0.01	57501	99.77					
758	10	0.02	57265	99.36	811	4	0.01	57505	99.78					
759	11	0.02	57276	99.38	812	2	0.00	57507	99.78					
760	6	0.01	57282	99.39	813	1	0.00	57508	99.78					
761	4	0.01	57286	99.40	814	1	0.00	57509	99.78					



**Table 179. Mathematics 8 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
310	295	0.51	295	0.51	362	3	0.01	473	0.82	412	27	0.05	1175	2.04
311	1	0.00	296	0.51	363	4	0.01	477	0.83	413	28	0.05	1203	2.09
312	2	0.00	298	0.52	364	6	0.01	483	0.84	414	23	0.04	1226	2.13
313	3	0.01	301	0.52	365	5	0.01	488	0.85	415	29	0.05	1255	2.18
314	1	0.00	302	0.52	366	7	0.01	495	0.86	416	31	0.05	1286	2.23
316	1	0.00	303	0.53	367	9	0.02	504	0.87	417	30	0.05	1316	2.28
317	5	0.01	308	0.53	368	10	0.02	514	0.89	418	31	0.05	1347	2.34
318	2	0.00	310	0.54	369	5	0.01	519	0.90	419	28	0.05	1375	2.39
319	1	0.00	311	0.54	370	10	0.02	529	0.92	420	33	0.06	1408	2.44
320	3	0.01	314	0.54	371	7	0.01	536	0.93	421	36	0.06	1444	2.51
321	2	0.00	316	0.55	372	9	0.02	545	0.95	422	36	0.06	1480	2.57
322	1	0.00	317	0.55	373	14	0.02	559	0.97	423	34	0.06	1514	2.63
323	3	0.01	320	0.56	374	8	0.01	567	0.98	424	36	0.06	1550	2.69
324	3	0.01	323	0.56	375	13	0.02	580	1.01	425	37	0.06	1587	2.75
325	1	0.00	324	0.56	376	6	0.01	586	1.02	426	35	0.06	1622	2.81
326	3	0.01	327	0.57	377	7	0.01	593	1.03	427	42	0.07	1664	2.89
327	3	0.01	330	0.57	378	8	0.01	601	1.04	428	38	0.07	1702	2.95
328	3	0.01	333	0.58	379	6	0.01	607	1.05	429	40	0.07	1742	3.02
329	2	0.00	335	0.58	380	11	0.02	618	1.07	430	37	0.06	1779	3.09
330	4	0.01	339	0.59	381	10	0.02	628	1.09	431	37	0.06	1816	3.15
331	3	0.01	342	0.59	382	12	0.02	640	1.11	432	51	0.09	1867	3.24
332	5	0.01	347	0.60	383	10	0.02	650	1.13	433	57	0.10	1924	3.34
333	1	0.00	348	0.60	384	13	0.02	663	1.15	434	53	0.09	1977	3.43
334	1	0.00	349	0.61	385	12	0.02	675	1.17	435	53	0.09	2030	3.52
335	5	0.01	354	0.61	386	11	0.02	686	1.19	436	50	0.09	2080	3.61
336	4	0.01	358	0.62	387	12	0.02	698	1.21	437	37	0.06	2117	3.67
337	4	0.01	362	0.63	388	13	0.02	711	1.23	438	57	0.10	2174	3.77
339	4	0.01	366	0.64	389	14	0.02	725	1.26	439	45	0.08	2219	3.85
340	3	0.01	369	0.64	390	14	0.02	739	1.28	440	48	0.08	2267	3.93
341	3	0.01	372	0.65	391	13	0.02	752	1.31	441	46	0.08	2313	4.01
342	7	0.01	379	0.66	392	21	0.04	773	1.34	442	60	0.10	2373	4.12
343	3	0.01	382	0.66	393	16	0.03	789	1.37	443	70	0.12	2443	4.24
344	3	0.01	385	0.67	394	11	0.02	800	1.39	444	50	0.09	2493	4.33
345	5	0.01	390	0.68	395	22	0.04	822	1.43	445	73	0.13	2566	4.45
346	2	0.00	392	0.68	396	18	0.03	840	1.46	446	79	0.14	2645	4.59
347	5	0.01	397	0.69	397	19	0.03	859	1.49	447	68	0.12	2713	4.71
348	4	0.01	401	0.70	398	12	0.02	871	1.51	448	58	0.10	2771	4.81
349	3	0.01	404	0.70	399	11	0.02	882	1.53	449	70	0.12	2841	4.93
350	2	0.00	406	0.70	400	15	0.03	897	1.56	450	69	0.12	2910	5.05
351	9	0.02	415	0.72	401	24	0.04	921	1.60	451	80	0.14	2990	5.19
352	6	0.01	421	0.73	402	19	0.03	940	1.63	452	55	0.10	3045	5.28
353	4	0.01	425	0.74	403	22	0.04	962	1.67	453	63	0.11	3108	5.39
354	5	0.01	430	0.75	404	22	0.04	984	1.71	454	62	0.11	3170	5.50
355	5	0.01	435	0.75	405	20	0.03	1004	1.74	455	64	0.11	3234	5.61
356	6	0.01	441	0.77	406	28	0.05	1032	1.79	456	74	0.13	3308	5.74
357	5	0.01	446	0.77	407	21	0.04	1053	1.83	457	81	0.14	3389	5.88
358	4	0.01	450	0.78	408	24	0.04	1077	1.87	458	100	0.17	3489	6.06
359	4	0.01	454	0.79	409	27	0.05	1104	1.92	459	83	0.14	3572	6.20
360	6	0.01	460	0.80	410	22	0.04	1126	1.95	460	77	0.13	3649	6.33
361	10	0.02	470	0.82	411	22	0.04	1148	1.99	461	80	0.14	3729	6.47

**Table 179. Mathematics 8 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
462	77	0.13	3806	6.61	512	246	0.43	11097	19.26	562	328	0.57	25860	44.88
463	86	0.15	3892	6.75	513	220	0.38	11317	19.64	563	360	0.62	26220	45.51
464	92	0.16	3984	6.91	514	209	0.36	11526	20.00	564	397	0.69	26617	46.19
465	103	0.18	4087	7.09	515	244	0.42	11770	20.43	565	356	0.62	26973	46.81
466	90	0.16	4177	7.25	516	211	0.37	11981	20.79	566	354	0.61	27327	47.43
467	83	0.14	4260	7.39	517	230	0.40	12211	21.19	567	369	0.64	27696	48.07
468	108	0.19	4368	7.58	518	226	0.39	12437	21.58	568	367	0.64	28063	48.70
469	100	0.17	4468	7.75	519	271	0.47	12708	22.05	569	385	0.67	28448	49.37
470	98	0.17	4566	7.92	520	248	0.43	12956	22.49	570	377	0.65	28825	50.03
471	100	0.17	4666	8.10	521	247	0.43	13203	22.91	571	380	0.66	29205	50.69
472	101	0.18	4767	8.27	522	225	0.39	13428	23.30	572	344	0.60	29549	51.28
473	129	0.22	4896	8.50	523	232	0.40	13660	23.71	573	395	0.69	29944	51.97
474	113	0.20	5009	8.69	524	253	0.44	13913	24.15	574	367	0.64	30311	52.60
475	104	0.18	5113	8.87	525	267	0.46	14180	24.61	575	382	0.66	30693	53.27
476	110	0.19	5223	9.06	526	235	0.41	14415	25.02	576	310	0.54	31003	53.81
477	113	0.20	5336	9.26	527	263	0.46	14678	25.47	577	357	0.62	31360	54.43
478	110	0.19	5446	9.45	528	262	0.45	14940	25.93	578	345	0.60	31705	55.02
479	123	0.21	5569	9.67	529	289	0.50	15229	26.43	579	385	0.67	32090	55.69
480	130	0.23	5699	9.89	530	252	0.44	15481	26.87	580	371	0.64	32461	56.34
481	122	0.21	5821	10.10	531	253	0.44	15734	27.31	581	336	0.58	32797	56.92
482	143	0.25	5964	10.35	532	259	0.45	15993	27.76	582	354	0.61	33151	57.53
483	123	0.21	6087	10.56	533	267	0.46	16260	28.22	583	371	0.64	33522	58.18
484	146	0.25	6233	10.82	534	300	0.52	16560	28.74	584	361	0.63	33883	58.80
485	149	0.26	6382	11.08	535	319	0.55	16879	29.29	585	357	0.62	34240	59.42
486	141	0.24	6523	11.32	536	309	0.54	17188	29.83	586	352	0.61	34592	60.03
487	133	0.23	6656	11.55	537	336	0.58	17524	30.41	587	365	0.63	34957	60.67
488	132	0.23	6788	11.78	538	292	0.51	17816	30.92	588	345	0.60	35302	61.27
489	156	0.27	6944	12.05	539	323	0.56	18139	31.48	589	429	0.74	35731	62.01
490	154	0.27	7098	12.32	540	283	0.49	18422	31.97	590	357	0.62	36088	62.63
491	134	0.23	7232	12.55	541	327	0.57	18749	32.54	591	341	0.59	36429	63.22
492	173	0.30	7405	12.85	542	338	0.59	19087	33.13	592	362	0.63	36791	63.85
493	185	0.32	7590	13.17	543	335	0.58	19422	33.71	593	360	0.62	37151	64.48
494	165	0.29	7755	13.46	544	303	0.53	19725	34.23	594	317	0.55	37468	65.03
495	138	0.24	7893	13.70	545	315	0.55	20040	34.78	595	344	0.60	37812	65.62
496	175	0.30	8068	14.00	546	328	0.57	20368	35.35	596	295	0.51	38107	66.14
497	156	0.27	8224	14.27	547	329	0.57	20697	35.92	597	339	0.59	38446	66.72
498	180	0.31	8404	14.59	548	344	0.60	21041	36.52	598	358	0.62	38804	67.34
499	154	0.27	8558	14.85	549	346	0.60	21387	37.12	599	351	0.61	39155	67.95
500	158	0.27	8716	15.13	550	324	0.56	21711	37.68	600	359	0.62	39514	68.58
501	173	0.30	8889	15.43	551	325	0.56	22036	38.24	601	359	0.62	39873	69.20
502	187	0.32	9076	15.75	552	312	0.54	22348	38.79	602	361	0.63	40234	69.83
503	186	0.32	9262	16.07	553	354	0.61	22702	39.40	603	325	0.56	40559	70.39
504	171	0.30	9433	16.37	554	330	0.57	23032	39.97	604	314	0.54	40873	70.94
505	197	0.34	9630	16.71	555	354	0.61	23386	40.59	605	295	0.51	41168	71.45
506	194	0.34	9824	17.05	556	381	0.66	23767	41.25	606	363	0.63	41531	72.08
507	197	0.34	10021	17.39	557	367	0.64	24134	41.88	607	340	0.59	41871	72.67
508	208	0.36	10229	17.75	558	346	0.60	24480	42.49	608	335	0.58	42206	73.25
509	181	0.31	10410	18.07	559	380	0.66	24860	43.14	609	323	0.56	42529	73.81
510	212	0.37	10622	18.43	560	343	0.60	25203	43.74	610	318	0.55	42847	74.36
511	229	0.40	10851	18.83	561	329	0.57	25532	44.31	611	308	0.53	43155	74.90

**Table 179. Mathematics 8 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
612	317	0.55	43472	75.45	659	134	0.23	54195	94.06	706	20	0.03	57384	99.59
613	319	0.55	43791	76.00	660	133	0.23	54328	94.29	707	13	0.02	57397	99.61
614	300	0.52	44091	76.52	661	156	0.27	54484	94.56	708	11	0.02	57408	99.63
615	267	0.46	44358	76.98	662	147	0.26	54631	94.81	709	15	0.03	57423	99.66
616	336	0.58	44694	77.57	663	130	0.23	54761	95.04	710	17	0.03	57440	99.69
617	287	0.50	44981	78.06	664	125	0.22	54886	95.26	711	8	0.01	57448	99.70
618	279	0.48	45260	78.55	665	133	0.23	55019	95.49	712	10	0.02	57458	99.72
619	290	0.50	45550	79.05	666	121	0.21	55140	95.70	713	9	0.02	57467	99.73
620	289	0.50	45839	79.55	667	134	0.23	55274	95.93	714	13	0.02	57480	99.76
621	324	0.56	46163	80.12	668	123	0.21	55397	96.14	715	6	0.01	57486	99.77
622	291	0.51	46454	80.62	669	108	0.19	55505	96.33	716	6	0.01	57492	99.78
623	233	0.40	46687	81.03	670	87	0.15	55592	96.48	717	5	0.01	57497	99.79
624	272	0.47	46959	81.50	671	89	0.15	55681	96.63	718	8	0.01	57505	99.80
625	263	0.46	47222	81.95	672	102	0.18	55783	96.81	719	4	0.01	57509	99.81
626	260	0.45	47482	82.41	673	90	0.16	55873	96.97	720	9	0.02	57518	99.82
627	251	0.44	47733	82.84	674	85	0.15	55958	97.12	721	4	0.01	57522	99.83
628	240	0.42	47973	83.26	675	91	0.16	56049	97.27	722	11	0.02	57533	99.85
629	243	0.42	48216	83.68	676	90	0.16	56139	97.43	723	3	0.01	57536	99.85
630	238	0.41	48454	84.09	677	89	0.15	56228	97.58	724	5	0.01	57541	99.86
631	235	0.41	48689	84.50	678	61	0.11	56289	97.69	725	2	0.00	57543	99.87
632	249	0.43	48938	84.93	679	68	0.12	56357	97.81	726	2	0.00	57545	99.87
633	242	0.42	49180	85.35	680	57	0.10	56414	97.91	727	2	0.00	57547	99.87
634	254	0.44	49434	85.79	681	65	0.11	56479	98.02	728	8	0.01	57555	99.89
635	243	0.42	49677	86.21	682	61	0.11	56540	98.13	729	2	0.00	57557	99.89
636	220	0.38	49897	86.60	683	57	0.10	56597	98.22	730	4	0.01	57561	99.90
637	220	0.38	50117	86.98	684	57	0.10	56654	98.32	731	1	0.00	57562	99.90
638	213	0.37	50330	87.35	685	53	0.09	56707	98.42	733	2	0.00	57564	99.90
639	204	0.35	50534	87.70	686	51	0.09	56758	98.50	734	4	0.01	57568	99.91
640	229	0.40	50763	88.10	687	48	0.08	56806	98.59	735	2	0.00	57570	99.91
641	198	0.34	50961	88.44	688	49	0.09	56855	98.67	736	2	0.00	57572	99.92
642	210	0.36	51171	88.81	689	54	0.09	56909	98.77	737	2	0.00	57574	99.92
643	207	0.36	51378	89.17	690	39	0.07	56948	98.83	738	3	0.01	57577	99.93
644	199	0.35	51577	89.51	691	37	0.06	56985	98.90	739	1	0.00	57578	99.93
645	175	0.30	51752	89.82	692	42	0.07	57027	98.97	740	3	0.01	57581	99.93
646	227	0.39	51979	90.21	693	34	0.06	57061	99.03	741	5	0.01	57586	99.94
647	216	0.37	52195	90.58	694	39	0.07	57100	99.10	743	1	0.00	57587	99.94
648	216	0.37	52411	90.96	695	34	0.06	57134	99.16	745	6	0.01	57593	99.95
649	182	0.32	52593	91.28	696	20	0.03	57154	99.19	746	1	0.00	57594	99.95
650	185	0.32	52778	91.60	697	24	0.04	57178	99.23	747	1	0.00	57595	99.96
651	162	0.28	52940	91.88	698	32	0.06	57210	99.29	749	2	0.00	57597	99.96
652	145	0.25	53085	92.13	699	32	0.06	57242	99.34	753	2	0.00	57599	99.96
653	186	0.32	53271	92.45	700	24	0.04	57266	99.39	754	1	0.00	57600	99.97
654	166	0.29	53437	92.74	701	21	0.04	57287	99.42	755	1	0.00	57601	99.97
655	160	0.28	53597	93.02	702	19	0.03	57306	99.46	756	1	0.00	57602	99.97
656	166	0.29	53763	93.31	703	25	0.04	57331	99.50	757	2	0.00	57604	99.97
657	164	0.28	53927	93.59	704	18	0.03	57349	99.53	765	1	0.00	57605	99.97
658	134	0.23	54061	93.82	705	15	0.03	57364	99.56	766	3	0.01	57608	99.98

**Table 179. Mathematics 8 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq.</b>	<b>%</b>	<b>Cum. Freq.</b>	<b>Cum. %</b>
<b>771</b>	1	0.00	57609	99.98
<b>777</b>	2	0.00	57611	99.98
<b>779</b>	1	0.00	57612	99.99
<b>781</b>	1	0.00	57613	99.99
<b>789</b>	3	0.01	57616	99.99
<b>791</b>	2	0.00	57618	100.00
<b>890</b>	2	0.00	57620	100.00

**Table 180. Science 8 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	366	0.64	366	0.64	350	23	0.04	1095	1.90	400	74	0.13	3578	6.21
301	1	0.00	367	0.64	351	32	0.06	1127	1.96	401	90	0.16	3668	6.36
302	7	0.01	374	0.65	352	24	0.04	1151	2.00	402	91	0.16	3759	6.52
303	10	0.02	384	0.67	353	24	0.04	1175	2.04	403	79	0.14	3838	6.66
304	11	0.02	395	0.69	354	28	0.05	1203	2.09	404	86	0.15	3924	6.81
305	6	0.01	401	0.70	355	29	0.05	1232	2.14	405	92	0.16	4016	6.97
306	4	0.01	405	0.70	356	25	0.04	1257	2.18	406	81	0.14	4097	7.11
307	10	0.02	415	0.72	357	20	0.03	1277	2.22	407	88	0.15	4185	7.26
308	2	0.00	417	0.72	358	29	0.05	1306	2.27	408	93	0.16	4278	7.42
309	8	0.01	425	0.74	359	46	0.08	1352	2.35	409	91	0.16	4369	7.58
310	6	0.01	431	0.75	360	32	0.06	1384	2.40	410	90	0.16	4459	7.74
311	6	0.01	437	0.76	361	41	0.07	1425	2.47	411	92	0.16	4551	7.90
312	8	0.01	445	0.77	362	38	0.07	1463	2.54	412	100	0.17	4651	8.07
313	6	0.01	451	0.78	363	39	0.07	1502	2.61	413	115	0.20	4766	8.27
314	10	0.02	461	0.80	364	49	0.09	1551	2.69	414	105	0.18	4871	8.45
315	17	0.03	478	0.83	365	31	0.05	1582	2.75	415	99	0.17	4970	8.62
316	15	0.03	493	0.86	366	41	0.07	1623	2.82	416	135	0.23	5105	8.86
317	9	0.02	502	0.87	367	35	0.06	1658	2.88	417	110	0.19	5215	9.05
318	11	0.02	513	0.89	368	40	0.07	1698	2.95	418	113	0.20	5328	9.25
319	8	0.01	521	0.90	369	52	0.09	1750	3.04	419	114	0.20	5442	9.44
320	14	0.02	535	0.93	370	30	0.05	1780	3.09	420	127	0.22	5569	9.66
321	10	0.02	545	0.95	371	47	0.08	1827	3.17	421	147	0.26	5716	9.92
322	13	0.02	558	0.97	372	40	0.07	1867	3.24	422	110	0.19	5826	10.11
323	10	0.02	568	0.99	373	50	0.09	1917	3.33	423	130	0.23	5956	10.33
324	11	0.02	579	1.00	374	51	0.09	1968	3.41	424	132	0.23	6088	10.56
325	17	0.03	596	1.03	375	62	0.11	2030	3.52	425	138	0.24	6226	10.80
326	13	0.02	609	1.06	376	45	0.08	2075	3.60	426	136	0.24	6362	11.04
327	15	0.03	624	1.08	377	63	0.11	2138	3.71	427	154	0.27	6516	11.31
328	19	0.03	643	1.12	378	47	0.08	2185	3.79	428	162	0.28	6678	11.59
329	13	0.02	656	1.14	379	50	0.09	2235	3.88	429	159	0.28	6837	11.86
330	13	0.02	669	1.16	380	54	0.09	2289	3.97	430	144	0.25	6981	12.11
331	14	0.02	683	1.19	381	56	0.10	2345	4.07	431	137	0.24	7118	12.35
332	24	0.04	707	1.23	382	49	0.09	2394	4.15	432	161	0.28	7279	12.63
333	11	0.02	718	1.25	383	49	0.09	2443	4.24	433	171	0.30	7450	12.93
334	23	0.04	741	1.29	384	55	0.10	2498	4.33	434	154	0.27	7604	13.19
335	15	0.03	756	1.31	385	58	0.10	2556	4.44	435	163	0.28	7767	13.48
336	19	0.03	775	1.34	386	67	0.12	2623	4.55	436	155	0.27	7922	13.75
337	21	0.04	796	1.38	387	59	0.10	2682	4.65	437	161	0.28	8083	14.03
338	16	0.03	812	1.41	388	47	0.08	2729	4.74	438	173	0.30	8256	14.33
339	21	0.04	833	1.45	389	60	0.10	2789	4.84	439	187	0.32	8443	14.65
340	27	0.05	860	1.49	390	59	0.10	2848	4.94	440	145	0.25	8588	14.90
341	18	0.03	878	1.52	391	65	0.11	2913	5.05	441	177	0.31	8765	15.21
342	17	0.03	895	1.55	392	64	0.11	2977	5.17	442	191	0.33	8956	15.54
343	25	0.04	920	1.60	393	57	0.10	3034	5.26	443	181	0.31	9137	15.85
344	23	0.04	943	1.64	394	61	0.11	3095	5.37	444	189	0.33	9326	16.18
345	29	0.05	972	1.69	395	87	0.15	3182	5.52	445	192	0.33	9518	16.52
346	26	0.05	998	1.73	396	79	0.14	3261	5.66	446	189	0.33	9707	16.84
347	19	0.03	1017	1.76	397	83	0.14	3344	5.80	447	187	0.32	9894	17.17
348	24	0.04	1041	1.81	398	90	0.16	3434	5.96	448	193	0.33	10087	17.50
349	31	0.05	1072	1.86	399	70	0.12	3504	6.08	449	189	0.33	10276	17.83

**Table 180. Science 8 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
450	237	0.41	10513	18.24	500	355	0.62	25599	44.42	550	355	0.62	44797	77.73
451	229	0.40	10742	18.64	501	377	0.65	25976	45.07	551	340	0.59	45137	78.32
452	217	0.38	10959	19.02	502	385	0.67	26361	45.74	552	356	0.62	45493	78.94
453	205	0.36	11164	19.37	503	369	0.64	26730	46.38	553	295	0.51	45788	79.45
454	224	0.39	11388	19.76	504	398	0.69	27128	47.07	554	323	0.56	46111	80.01
455	252	0.44	11640	20.20	505	378	0.66	27506	47.73	555	320	0.56	46431	80.57
456	242	0.42	11882	20.62	506	360	0.62	27866	48.35	556	300	0.52	46731	81.09
457	240	0.42	12122	21.03	507	405	0.70	28271	49.06	557	312	0.54	47043	81.63
458	233	0.40	12355	21.44	508	394	0.68	28665	49.74	558	321	0.56	47364	82.18
459	234	0.41	12589	21.84	509	396	0.69	29061	50.43	559	320	0.56	47684	82.74
460	246	0.43	12835	22.27	510	398	0.69	29459	51.12	560	303	0.53	47987	83.27
461	254	0.44	13089	22.71	511	389	0.67	29848	51.79	561	269	0.47	48256	83.73
462	260	0.45	13349	23.16	512	399	0.69	30247	52.48	562	269	0.47	48525	84.20
463	245	0.43	13594	23.59	513	413	0.72	30660	53.20	563	304	0.53	48829	84.73
464	254	0.44	13848	24.03	514	365	0.63	31025	53.83	564	289	0.50	49118	85.23
465	261	0.45	14109	24.48	515	413	0.72	31438	54.55	565	273	0.47	49391	85.70
466	311	0.54	14420	25.02	516	362	0.63	31800	55.18	566	276	0.48	49667	86.18
467	312	0.54	14732	25.56	517	382	0.66	32182	55.84	567	264	0.46	49931	86.64
468	266	0.46	14998	26.02	518	392	0.68	32574	56.52	568	250	0.43	50181	87.07
469	281	0.49	15279	26.51	519	394	0.68	32968	57.21	569	255	0.44	50436	87.52
470	306	0.53	15585	27.04	520	411	0.71	33379	57.92	570	250	0.43	50686	87.95
471	303	0.53	15888	27.57	521	393	0.68	33772	58.60	571	248	0.43	50934	88.38
472	267	0.46	16155	28.03	522	404	0.70	34176	59.30	572	239	0.41	51173	88.79
473	275	0.48	16430	28.51	523	397	0.69	34573	59.99	573	249	0.43	51422	89.23
474	318	0.55	16748	29.06	524	395	0.69	34968	60.68	574	254	0.44	51676	89.67
475	313	0.54	17061	29.60	525	396	0.69	35364	61.36	575	212	0.37	51888	90.03
476	295	0.51	17356	30.12	526	398	0.69	35762	62.05	576	224	0.39	52112	90.42
477	306	0.53	17662	30.65	527	385	0.67	36147	62.72	577	226	0.39	52338	90.82
478	313	0.54	17975	31.19	528	406	0.70	36553	63.43	578	197	0.34	52535	91.16
479	334	0.58	18309	31.77	529	392	0.68	36945	64.11	579	191	0.33	52726	91.49
480	321	0.56	18630	32.33	530	390	0.68	37335	64.78	580	191	0.33	52917	91.82
481	327	0.57	18957	32.89	531	393	0.68	37728	65.46	581	189	0.33	53106	92.15
482	291	0.50	19248	33.40	532	403	0.70	38131	66.16	582	179	0.31	53285	92.46
483	313	0.54	19561	33.94	533	396	0.69	38527	66.85	583	218	0.38	53503	92.84
484	291	0.50	19852	34.45	534	378	0.66	38905	67.51	584	172	0.30	53675	93.14
485	368	0.64	20220	35.09	535	391	0.68	39296	68.19	585	161	0.28	53836	93.42
486	353	0.61	20573	35.70	536	362	0.63	39658	68.81	586	174	0.30	54010	93.72
487	339	0.59	20912	36.29	537	407	0.71	40065	69.52	587	168	0.29	54178	94.01
488	352	0.61	21264	36.90	538	378	0.66	40443	70.18	588	149	0.26	54327	94.27
489	330	0.57	21594	37.47	539	430	0.75	40873	70.92	589	135	0.23	54462	94.50
490	384	0.67	21978	38.14	540	385	0.67	41258	71.59	590	146	0.25	54608	94.75
491	371	0.64	22349	38.78	541	368	0.64	41626	72.23	591	133	0.23	54741	94.99
492	355	0.62	22704	39.40	542	356	0.62	41982	72.85	592	133	0.23	54874	95.22
493	319	0.55	23023	39.95	543	380	0.66	42362	73.51	593	139	0.24	55013	95.46
494	345	0.60	23368	40.55	544	345	0.60	42707	74.10	594	98	0.17	55111	95.63
495	374	0.65	23742	41.20	545	361	0.63	43068	74.73	595	127	0.22	55238	95.85
496	371	0.64	24113	41.84	546	337	0.58	43405	75.32	596	109	0.19	55347	96.04
497	372	0.65	24485	42.49	547	353	0.61	43758	75.93	597	94	0.16	55441	96.20
498	388	0.67	24873	43.16	548	358	0.62	44116	76.55	598	113	0.20	55554	96.40
499	371	0.64	25244	43.80	549	326	0.57	44442	77.11	599	112	0.19	55666	96.59

**Table 180. Science 8 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
600	81	0.14	55747	96.73	650	4	0.01	57502	99.78
601	92	0.16	55839	96.89	651	10	0.02	57512	99.79
602	99	0.17	55938	97.06	652	7	0.01	57519	99.81
603	82	0.14	56020	97.20	653	9	0.02	57528	99.82
604	76	0.13	56096	97.34	654	8	0.01	57536	99.84
605	79	0.14	56175	97.47	655	4	0.01	57540	99.84
606	67	0.12	56242	97.59	656	5	0.01	57545	99.85
607	66	0.11	56308	97.70	657	3	0.01	57548	99.86
608	56	0.10	56364	97.80	658	5	0.01	57553	99.86
609	63	0.11	56427	97.91	659	7	0.01	57560	99.88
610	61	0.11	56488	98.02	660	8	0.01	57568	99.89
611	60	0.10	56548	98.12	661	4	0.01	57572	99.90
612	50	0.09	56598	98.21	662	5	0.01	57577	99.91
613	47	0.08	56645	98.29	663	6	0.01	57583	99.92
614	52	0.09	56697	98.38	664	5	0.01	57588	99.93
615	57	0.10	56754	98.48	665	3	0.01	57591	99.93
616	39	0.07	56793	98.55	666	1	0.00	57592	99.93
617	34	0.06	56827	98.60	667	2	0.00	57594	99.94
618	46	0.08	56873	98.68	668	3	0.01	57597	99.94
619	43	0.07	56916	98.76	669	1	0.00	57598	99.94
620	32	0.06	56948	98.81	670	3	0.01	57601	99.95
621	46	0.08	56994	98.89	671	3	0.01	57604	99.95
622	40	0.07	57034	98.96	672	1	0.00	57605	99.95
623	33	0.06	57067	99.02	674	2	0.00	57607	99.96
624	32	0.06	57099	99.08	675	2	0.00	57609	99.96
625	32	0.06	57131	99.13	676	2	0.00	57611	99.97
626	33	0.06	57164	99.19	677	3	0.01	57614	99.97
627	19	0.03	57183	99.22	678	1	0.00	57615	99.97
628	28	0.05	57211	99.27	681	1	0.00	57616	99.97
629	21	0.04	57232	99.31	683	1	0.00	57617	99.98
630	13	0.02	57245	99.33	684	1	0.00	57618	99.98
631	18	0.03	57263	99.36	685	2	0.00	57620	99.98
632	22	0.04	57285	99.40	686	2	0.00	57622	99.98
633	24	0.04	57309	99.44	688	3	0.01	57625	99.99
634	25	0.04	57334	99.48	689	1	0.00	57626	99.99
635	20	0.03	57354	99.52	693	1	0.00	57627	99.99
636	15	0.03	57369	99.55	695	1	0.00	57628	99.99
637	12	0.02	57381	99.57	697	1	0.00	57629	100.00
638	16	0.03	57397	99.59	700	1	0.00	57630	100.00
639	17	0.03	57414	99.62	760	1	0.00	57631	100.00
640	14	0.02	57428	99.65					
641	7	0.01	57435	99.66					
642	9	0.02	57444	99.68					
643	6	0.01	57450	99.69					
644	9	0.02	57459	99.70					
645	7	0.01	57466	99.71					
646	9	0.02	57475	99.73					
647	9	0.02	57484	99.74					
648	7	0.01	57491	99.76					
649	7	0.01	57498	99.77					

**Table 181. Reading 9 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
350	262	0.44	262	0.44	448	1	0.00	353	0.59	499	8	0.01	618	1.04
355	1	0.00	263	0.44	449	1	0.00	354	0.59	500	15	0.03	633	1.06
359	1	0.00	264	0.44	450	2	0.00	356	0.60	501	15	0.03	648	1.09
361	1	0.00	265	0.45	451	4	0.01	360	0.60	502	13	0.02	661	1.11
362	2	0.00	267	0.45	452	3	0.01	363	0.61	503	14	0.02	675	1.13
363	2	0.00	269	0.45	453	6	0.01	369	0.62	504	16	0.03	691	1.16
367	1	0.00	270	0.45	455	6	0.01	375	0.63	505	12	0.02	703	1.18
368	1	0.00	271	0.46	456	3	0.01	378	0.63	506	6	0.01	709	1.19
370	1	0.00	272	0.46	457	3	0.01	381	0.64	507	13	0.02	722	1.21
373	2	0.00	274	0.46	458	7	0.01	388	0.65	508	8	0.01	730	1.23
374	1	0.00	275	0.46	459	3	0.01	391	0.66	509	12	0.02	742	1.25
381	1	0.00	276	0.46	460	2	0.00	393	0.66	510	12	0.02	754	1.27
384	1	0.00	277	0.47	461	3	0.01	396	0.67	511	15	0.03	769	1.29
386	2	0.00	279	0.47	462	3	0.01	399	0.67	512	19	0.03	788	1.32
387	1	0.00	280	0.47	463	8	0.01	407	0.68	513	11	0.02	799	1.34
391	1	0.00	281	0.47	464	1	0.00	408	0.69	514	13	0.02	812	1.36
394	2	0.00	283	0.48	465	3	0.01	411	0.69	515	11	0.02	823	1.38
395	2	0.00	285	0.48	466	6	0.01	417	0.70	516	12	0.02	835	1.40
396	1	0.00	286	0.48	467	3	0.01	420	0.71	517	14	0.02	849	1.43
400	2	0.00	288	0.48	468	3	0.01	423	0.71	518	18	0.03	867	1.46
403	1	0.00	289	0.49	469	1	0.00	424	0.71	519	12	0.02	879	1.48
404	1	0.00	290	0.49	470	3	0.01	427	0.72	520	16	0.03	895	1.50
405	2	0.00	292	0.49	471	3	0.01	430	0.72	521	10	0.02	905	1.52
407	2	0.00	294	0.49	472	2	0.00	432	0.73	522	17	0.03	922	1.55
410	1	0.00	295	0.50	473	7	0.01	439	0.74	523	24	0.04	946	1.59
414	3	0.01	298	0.50	474	5	0.01	444	0.75	524	24	0.04	970	1.63
416	2	0.00	300	0.50	475	7	0.01	451	0.76	525	25	0.04	995	1.67
417	2	0.00	302	0.51	476	4	0.01	455	0.76	526	28	0.05	1023	1.72
418	1	0.00	303	0.51	477	6	0.01	461	0.77	527	34	0.06	1057	1.78
419	4	0.01	307	0.52	478	5	0.01	466	0.78	528	24	0.04	1081	1.82
420	1	0.00	308	0.52	479	4	0.01	470	0.79	529	16	0.03	1097	1.84
421	1	0.00	309	0.52	480	7	0.01	477	0.80	530	31	0.05	1128	1.89
423	3	0.01	312	0.52	481	5	0.01	482	0.81	531	25	0.04	1153	1.94
424	1	0.00	313	0.53	482	6	0.01	488	0.82	532	25	0.04	1178	1.98
425	2	0.00	315	0.53	483	9	0.02	497	0.83	533	28	0.05	1206	2.03
426	2	0.00	317	0.53	484	7	0.01	504	0.85	534	30	0.05	1236	2.08
427	1	0.00	318	0.53	485	12	0.02	516	0.87	535	31	0.05	1267	2.13
429	3	0.01	321	0.54	486	5	0.01	521	0.88	536	36	0.06	1303	2.19
431	1	0.00	322	0.54	487	11	0.02	532	0.89	537	37	0.06	1340	2.25
434	3	0.01	325	0.55	488	8	0.01	540	0.91	538	35	0.06	1375	2.31
436	1	0.00	326	0.55	489	5	0.01	545	0.92	539	31	0.05	1406	2.36
437	3	0.01	329	0.55	490	8	0.01	553	0.93	540	35	0.06	1441	2.42
438	4	0.01	333	0.56	491	10	0.02	563	0.95	541	45	0.08	1486	2.50
440	2	0.00	335	0.56	492	9	0.02	572	0.96	542	41	0.07	1527	2.57
442	2	0.00	337	0.57	493	6	0.01	578	0.97	543	54	0.09	1581	2.66
443	1	0.00	338	0.57	494	7	0.01	585	0.98	544	47	0.08	1628	2.73
444	2	0.00	340	0.57	495	3	0.01	588	0.99	545	41	0.07	1669	2.80
445	6	0.01	346	0.58	496	6	0.01	594	1.00	546	39	0.07	1708	2.87
446	5	0.01	351	0.59	497	8	0.01	602	1.01	547	62	0.10	1770	2.97
447	1	0.00	352	0.59	498	8	0.01	610	1.02	548	46	0.08	1816	3.05



**Table 181. Reading 9 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
549	39	0.07	1855	3.12	599	169	0.28	7055	11.85	649	430	0.72	22351	37.55
550	62	0.10	1917	3.22	600	151	0.25	7206	12.10	650	457	0.77	22808	38.31
551	47	0.08	1964	3.30	601	181	0.30	7387	12.41	651	450	0.76	23258	39.07
552	45	0.08	2009	3.37	602	185	0.31	7572	12.72	652	441	0.74	23699	39.81
553	52	0.09	2061	3.46	603	203	0.34	7775	13.06	653	444	0.75	24143	40.56
554	66	0.11	2127	3.57	604	225	0.38	8000	13.44	654	425	0.71	24568	41.27
555	49	0.08	2176	3.66	605	215	0.36	8215	13.80	655	469	0.79	25037	42.06
556	57	0.10	2233	3.75	606	214	0.36	8429	14.16	656	477	0.80	25514	42.86
557	53	0.09	2286	3.84	607	231	0.39	8660	14.55	657	439	0.74	25953	43.60
558	61	0.10	2347	3.94	608	221	0.37	8881	14.92	658	474	0.80	26427	44.39
559	69	0.12	2416	4.06	609	235	0.39	9116	15.31	659	477	0.80	26904	45.19
560	69	0.12	2485	4.17	610	213	0.36	9329	15.67	660	492	0.83	27396	46.02
561	54	0.09	2539	4.27	611	234	0.39	9563	16.06	661	503	0.84	27899	46.87
562	76	0.13	2615	4.39	612	232	0.39	9795	16.45	662	461	0.77	28360	47.64
563	79	0.13	2694	4.53	613	236	0.40	10031	16.85	663	462	0.78	28822	48.42
564	83	0.14	2777	4.66	614	249	0.42	10280	17.27	664	476	0.80	29298	49.22
565	75	0.13	2852	4.79	615	235	0.39	10515	17.66	665	477	0.80	29775	50.02
566	92	0.15	2944	4.95	616	263	0.44	10778	18.11	666	493	0.83	30268	50.84
567	87	0.15	3031	5.09	617	259	0.44	11037	18.54	667	499	0.84	30767	51.68
568	73	0.12	3104	5.21	618	272	0.46	11309	19.00	668	511	0.86	31278	52.54
569	96	0.16	3200	5.38	619	296	0.50	11605	19.49	669	485	0.81	31763	53.36
570	90	0.15	3290	5.53	620	295	0.50	11900	19.99	670	481	0.81	32244	54.16
571	110	0.18	3400	5.71	621	327	0.55	12227	20.54	671	497	0.83	32741	55.00
572	91	0.15	3491	5.86	622	289	0.49	12516	21.02	672	492	0.83	33233	55.83
573	93	0.16	3584	6.02	623	252	0.42	12768	21.45	673	471	0.79	33704	56.62
574	81	0.14	3665	6.16	624	307	0.52	13075	21.96	674	476	0.80	34180	57.42
575	94	0.16	3759	6.31	625	311	0.52	13386	22.49	675	506	0.85	34686	58.27
576	91	0.15	3850	6.47	626	356	0.60	13742	23.08	676	468	0.79	35154	59.05
577	110	0.18	3960	6.65	627	336	0.56	14078	23.65	677	484	0.81	35638	59.87
578	101	0.17	4061	6.82	628	326	0.55	14404	24.20	678	449	0.75	36087	60.62
579	91	0.15	4152	6.97	629	332	0.56	14736	24.75	679	530	0.89	36617	61.51
580	112	0.19	4264	7.16	630	316	0.53	15052	25.28	680	476	0.80	37093	62.31
581	108	0.18	4372	7.34	631	351	0.59	15403	25.87	681	469	0.79	37562	63.10
582	136	0.23	4508	7.57	632	333	0.56	15736	26.43	682	464	0.78	38026	63.88
583	126	0.21	4634	7.78	633	353	0.59	16089	27.03	683	490	0.82	38516	64.70
584	120	0.20	4754	7.99	634	352	0.59	16441	27.62	684	470	0.79	38986	65.49
585	111	0.19	4865	8.17	635	367	0.62	16808	28.23	685	487	0.82	39473	66.31
586	132	0.22	4997	8.39	636	374	0.63	17182	28.86	686	470	0.79	39943	67.10
587	132	0.22	5129	8.62	637	374	0.63	17556	29.49	687	458	0.77	40401	67.87
588	140	0.24	5269	8.85	638	364	0.61	17920	30.10	688	436	0.73	40837	68.60
589	156	0.26	5425	9.11	639	391	0.66	18311	30.76	689	512	0.86	41349	69.46
590	151	0.25	5576	9.37	640	402	0.68	18713	31.43	690	476	0.80	41825	70.26
591	160	0.27	5736	9.64	641	393	0.66	19106	32.09	691	450	0.76	42275	71.01
592	148	0.25	5884	9.88	642	383	0.64	19489	32.74	692	466	0.78	42741	71.80
593	159	0.27	6043	10.15	643	378	0.63	19867	33.37	693	492	0.83	43233	72.62
594	188	0.32	6231	10.47	644	400	0.67	20267	34.05	694	429	0.72	43662	73.34
595	159	0.27	6390	10.73	645	428	0.72	20695	34.76	695	433	0.73	44095	74.07
596	162	0.27	6552	11.01	646	411	0.69	21106	35.45	696	442	0.74	44537	74.81
597	154	0.26	6706	11.26	647	397	0.67	21503	36.12	697	426	0.72	44963	75.53
598	180	0.30	6886	11.57	648	418	0.70	21921	36.82	698	444	0.75	45407	76.28

**Table 181. Reading 9 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
699	425	0.71	45832	76.99	749	88	0.15	58359	98.03	799	3	0.01	59505	99.96
700	413	0.69	46245	77.68	750	63	0.11	58422	98.14	800	5	0.01	59510	99.97
701	417	0.70	46662	78.38	751	84	0.14	58506	98.28	801	1	0.00	59511	99.97
702	431	0.72	47093	79.11	752	77	0.13	58583	98.41	802	2	0.00	59513	99.97
703	417	0.70	47510	79.81	753	58	0.10	58641	98.51	804	3	0.01	59516	99.98
704	377	0.63	47887	80.44	754	61	0.10	58702	98.61	805	3	0.01	59519	99.98
705	399	0.67	48286	81.11	755	55	0.09	58757	98.70	807	1	0.00	59520	99.98
706	372	0.62	48658	81.74	756	61	0.10	58818	98.80	811	1	0.00	59521	99.98
707	417	0.70	49075	82.44	757	50	0.08	58868	98.89	813	2	0.00	59523	99.99
708	376	0.63	49451	83.07	758	38	0.06	58906	98.95	814	1	0.00	59524	99.99
709	380	0.64	49831	83.71	759	32	0.05	58938	99.01	821	1	0.00	59525	99.99
710	386	0.65	50217	84.36	760	38	0.06	58976	99.07	826	1	0.00	59526	99.99
711	366	0.61	50583	84.97	761	49	0.08	59025	99.15	827	1	0.00	59527	99.99
712	332	0.56	50915	85.53	762	32	0.05	59057	99.21	828	1	0.00	59528	100.00
713	350	0.59	51265	86.12	763	38	0.06	59095	99.27	835	1	0.00	59529	100.00
714	355	0.60	51620	86.71	764	30	0.05	59125	99.32	843	1	0.00	59530	100.00
715	301	0.51	51921	87.22	765	26	0.04	59151	99.36					
716	309	0.52	52230	87.74	766	19	0.03	59170	99.40					
717	323	0.54	52553	88.28	767	34	0.06	59204	99.45					
718	294	0.49	52847	88.77	768	19	0.03	59223	99.48					
719	293	0.49	53140	89.27	769	24	0.04	59247	99.52					
720	278	0.47	53418	89.73	770	23	0.04	59270	99.56					
721	269	0.45	53687	90.18	771	19	0.03	59289	99.60					
722	241	0.40	53928	90.59	772	26	0.04	59315	99.64					
723	292	0.49	54220	91.08	773	16	0.03	59331	99.67					
724	224	0.38	54444	91.46	774	16	0.03	59347	99.69					
725	228	0.38	54672	91.84	775	21	0.04	59368	99.73					
726	241	0.40	54913	92.24	776	15	0.03	59383	99.75					
727	207	0.35	55120	92.59	777	8	0.01	59391	99.77					
728	230	0.39	55350	92.98	778	10	0.02	59401	99.78					
729	217	0.36	55567	93.34	779	7	0.01	59408	99.80					
730	222	0.37	55789	93.72	780	5	0.01	59413	99.80					
731	205	0.34	55994	94.06	781	8	0.01	59421	99.82					
732	185	0.31	56179	94.37	782	9	0.02	59430	99.83					
733	170	0.29	56349	94.66	783	7	0.01	59437	99.84					
734	186	0.31	56535	94.97	784	9	0.02	59446	99.86					
735	163	0.27	56698	95.24	785	4	0.01	59450	99.87					
736	154	0.26	56852	95.50	786	9	0.02	59459	99.88					
737	169	0.28	57021	95.79	787	4	0.01	59463	99.89					
738	154	0.26	57175	96.04	788	3	0.01	59466	99.89					
739	127	0.21	57302	96.26	789	5	0.01	59471	99.90					
740	143	0.24	57445	96.50	790	7	0.01	59478	99.91					
741	114	0.19	57559	96.69	791	5	0.01	59483	99.92					
742	107	0.18	57666	96.87	792	4	0.01	59487	99.93					
743	128	0.22	57794	97.08	793	4	0.01	59491	99.93					
744	125	0.21	57919	97.29	794	2	0.00	59493	99.94					
745	96	0.16	58015	97.46	795	1	0.00	59494	99.94					
746	97	0.16	58112	97.62	796	3	0.01	59497	99.94					
747	82	0.14	58194	97.76	797	4	0.01	59501	99.95					
748	77	0.13	58271	97.89	798	1	0.00	59502	99.95					

**Table 182. Writing 9 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
260	52	0.09	52	0.09	324	3	0.01	153	0.26	374	12	0.02	537	0.90
261	1	0.00	53	0.09	325	5	0.01	158	0.27	375	16	0.03	553	0.93
262	1	0.00	54	0.09	326	1	0.00	159	0.27	376	16	0.03	569	0.96
264	1	0.00	55	0.09	327	5	0.01	164	0.28	377	19	0.03	588	0.99
265	1	0.00	56	0.09	328	7	0.01	171	0.29	378	12	0.02	600	1.01
268	1	0.00	57	0.10	329	6	0.01	177	0.30	379	16	0.03	616	1.03
272	1	0.00	58	0.10	330	4	0.01	181	0.30	380	20	0.03	636	1.07
274	1	0.00	59	0.10	331	3	0.01	184	0.31	381	24	0.04	660	1.11
275	2	0.00	61	0.10	332	2	0.00	186	0.31	382	10	0.02	670	1.13
276	1	0.00	62	0.10	333	5	0.01	191	0.32	383	14	0.02	684	1.15
277	1	0.00	63	0.11	334	7	0.01	198	0.33	384	15	0.03	699	1.17
280	2	0.00	65	0.11	335	1	0.00	199	0.33	385	30	0.05	729	1.22
281	3	0.01	68	0.11	336	8	0.01	207	0.35	386	14	0.02	743	1.25
282	1	0.00	69	0.12	337	3	0.01	210	0.35	387	19	0.03	762	1.28
283	2	0.00	71	0.12	338	9	0.02	219	0.37	388	22	0.04	784	1.32
284	3	0.01	74	0.12	339	4	0.01	223	0.37	389	24	0.04	808	1.36
285	1	0.00	75	0.13	340	8	0.01	231	0.39	390	21	0.04	829	1.39
287	2	0.00	77	0.13	341	6	0.01	237	0.40	391	16	0.03	845	1.42
288	1	0.00	78	0.13	342	4	0.01	241	0.40	392	28	0.05	873	1.47
290	2	0.00	80	0.13	343	6	0.01	247	0.41	393	31	0.05	904	1.52
291	1	0.00	81	0.14	344	3	0.01	250	0.42	394	24	0.04	928	1.56
292	3	0.01	84	0.14	345	10	0.02	260	0.44	395	37	0.06	965	1.62
293	1	0.00	85	0.14	346	10	0.02	270	0.45	396	29	0.05	994	1.67
295	2	0.00	87	0.15	347	13	0.02	283	0.48	397	26	0.04	1020	1.71
296	1	0.00	88	0.15	348	5	0.01	288	0.48	398	32	0.05	1052	1.77
297	1	0.00	89	0.15	349	5	0.01	293	0.49	399	33	0.06	1085	1.82
298	2	0.00	91	0.15	350	4	0.01	297	0.50	400	23	0.04	1108	1.86
299	4	0.01	95	0.16	351	8	0.01	305	0.51	401	29	0.05	1137	1.91
300	1	0.00	96	0.16	352	2	0.00	307	0.52	402	35	0.06	1172	1.97
301	1	0.00	97	0.16	353	9	0.02	316	0.53	403	34	0.06	1206	2.03
303	1	0.00	98	0.16	354	13	0.02	329	0.55	404	43	0.07	1249	2.10
304	3	0.01	101	0.17	355	5	0.01	334	0.56	405	35	0.06	1284	2.16
305	4	0.01	105	0.18	356	8	0.01	342	0.57	406	42	0.07	1326	2.23
306	2	0.00	107	0.18	357	10	0.02	352	0.59	407	31	0.05	1357	2.28
307	1	0.00	108	0.18	358	11	0.02	363	0.61	408	44	0.07	1401	2.35
308	3	0.01	111	0.19	359	6	0.01	369	0.62	409	26	0.04	1427	2.40
309	1	0.00	112	0.19	360	14	0.02	383	0.64	410	28	0.05	1455	2.44
310	3	0.01	115	0.19	361	7	0.01	390	0.66	411	29	0.05	1484	2.49
312	3	0.01	118	0.20	362	8	0.01	398	0.67	412	55	0.09	1539	2.59
313	2	0.00	120	0.20	363	12	0.02	410	0.69	413	55	0.09	1594	2.68
314	3	0.01	123	0.21	364	12	0.02	422	0.71	414	33	0.06	1627	2.73
315	6	0.01	129	0.22	365	11	0.02	433	0.73	415	49	0.08	1676	2.82
316	2	0.00	131	0.22	366	12	0.02	445	0.75	416	45	0.08	1721	2.89
317	2	0.00	133	0.22	367	16	0.03	461	0.77	417	45	0.08	1766	2.97
318	3	0.01	136	0.23	368	7	0.01	468	0.79	418	36	0.06	1802	3.03
319	3	0.01	139	0.23	369	9	0.02	477	0.80	419	41	0.07	1843	3.10
320	3	0.01	142	0.24	370	14	0.02	491	0.82	420	58	0.10	1901	3.19
321	3	0.01	145	0.24	371	13	0.02	504	0.85	421	37	0.06	1938	3.26
322	1	0.00	146	0.25	372	10	0.02	514	0.86	422	53	0.09	1991	3.34
323	4	0.01	150	0.25	373	11	0.02	525	0.88	423	46	0.08	2037	3.42

**Table 182. Writing 9 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
424	56	0.09	2093	3.52	474	143	0.24	7220	12.13	524	261	0.44	17686	29.71
425	47	0.08	2140	3.60	475	143	0.24	7363	12.37	525	241	0.40	17927	30.12
426	61	0.10	2201	3.70	476	162	0.27	7525	12.64	526	258	0.43	18185	30.55
427	58	0.10	2259	3.80	477	167	0.28	7692	12.92	527	279	0.47	18464	31.02
428	73	0.12	2332	3.92	478	168	0.28	7860	13.20	528	291	0.49	18755	31.51
429	60	0.10	2392	4.02	479	160	0.27	8020	13.47	529	300	0.50	19055	32.01
430	58	0.10	2450	4.12	480	175	0.29	8195	13.77	530	262	0.44	19317	32.45
431	62	0.10	2512	4.22	481	147	0.25	8342	14.01	531	275	0.46	19592	32.92
432	58	0.10	2570	4.32	482	170	0.29	8512	14.30	532	327	0.55	19919	33.46
433	69	0.12	2639	4.43	483	162	0.27	8674	14.57	533	298	0.50	20217	33.97
434	60	0.10	2699	4.53	484	182	0.31	8856	14.88	534	300	0.50	20517	34.47
435	85	0.14	2784	4.68	485	172	0.29	9028	15.17	535	318	0.53	20835	35.00
436	79	0.13	2863	4.81	486	193	0.32	9221	15.49	536	306	0.51	21141	35.52
437	66	0.11	2929	4.92	487	178	0.30	9399	15.79	537	267	0.45	21408	35.97
438	83	0.14	3012	5.06	488	177	0.30	9576	16.09	538	318	0.53	21726	36.50
439	75	0.13	3087	5.19	489	190	0.32	9766	16.41	539	282	0.47	22008	36.97
440	71	0.12	3158	5.31	490	177	0.30	9943	16.70	540	291	0.49	22299	37.46
441	83	0.14	3241	5.44	491	177	0.30	10120	17.00	541	303	0.51	22602	37.97
442	78	0.13	3319	5.58	492	145	0.24	10265	17.25	542	330	0.55	22932	38.53
443	100	0.17	3419	5.74	493	197	0.33	10462	17.58	543	294	0.49	23226	39.02
444	89	0.15	3508	5.89	494	205	0.34	10667	17.92	544	286	0.48	23512	39.50
445	106	0.18	3614	6.07	495	210	0.35	10877	18.27	545	350	0.59	23862	40.09
446	96	0.16	3710	6.23	496	208	0.35	11085	18.62	546	338	0.57	24200	40.66
447	97	0.16	3807	6.40	497	227	0.38	11312	19.00	547	322	0.54	24522	41.20
448	102	0.17	3909	6.57	498	194	0.33	11506	19.33	548	310	0.52	24832	41.72
449	101	0.17	4010	6.74	499	181	0.30	11687	19.63	549	306	0.51	25138	42.23
450	76	0.13	4086	6.86	500	195	0.33	11882	19.96	550	296	0.50	25434	42.73
451	102	0.17	4188	7.04	501	229	0.38	12111	20.35	551	312	0.52	25746	43.25
452	111	0.19	4299	7.22	502	210	0.35	12321	20.70	552	331	0.56	26077	43.81
453	112	0.19	4411	7.41	503	225	0.38	12546	21.08	553	298	0.50	26375	44.31
454	127	0.21	4538	7.62	504	214	0.36	12760	21.44	554	341	0.57	26716	44.88
455	119	0.20	4657	7.82	505	199	0.33	12959	21.77	555	335	0.56	27051	45.45
456	126	0.21	4783	8.04	506	218	0.37	13177	22.14	556	365	0.61	27416	46.06
457	105	0.18	4888	8.21	507	225	0.38	13402	22.52	557	345	0.58	27761	46.64
458	131	0.22	5019	8.43	508	246	0.41	13648	22.93	558	302	0.51	28063	47.15
459	112	0.19	5131	8.62	509	246	0.41	13894	23.34	559	338	0.57	28401	47.71
460	112	0.19	5243	8.81	510	235	0.39	14129	23.74	560	335	0.56	28736	48.28
461	126	0.21	5369	9.02	511	234	0.39	14363	24.13	561	330	0.55	29066	48.83
462	141	0.24	5510	9.26	512	234	0.39	14597	24.52	562	330	0.55	29396	49.39
463	121	0.20	5631	9.46	513	242	0.41	14839	24.93	563	302	0.51	29698	49.89
464	117	0.20	5748	9.66	514	235	0.39	15074	25.32	564	331	0.56	30029	50.45
465	121	0.20	5869	9.86	515	268	0.45	15342	25.77	565	325	0.55	30354	51.00
466	132	0.22	6001	10.08	516	260	0.44	15602	26.21	566	330	0.55	30684	51.55
467	149	0.25	6150	10.33	517	245	0.41	15847	26.62	567	328	0.55	31012	52.10
468	138	0.23	6288	10.56	518	238	0.40	16085	27.02	568	331	0.56	31343	52.66
469	156	0.26	6444	10.83	519	261	0.44	16346	27.46	569	348	0.58	31691	53.24
470	165	0.28	6609	11.10	520	245	0.41	16591	27.87	570	329	0.55	32020	53.79
471	169	0.28	6778	11.39	521	300	0.50	16891	28.38	571	325	0.55	32345	54.34
472	144	0.24	6922	11.63	522	265	0.45	17156	28.82	572	354	0.59	32699	54.94
473	155	0.26	7077	11.89	523	269	0.45	17425	29.27	573	320	0.54	33019	55.47

**Table 182. Writing 9 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
574	303	0.51	33322	55.98	621	246	0.41	46665	78.40	668	105	0.18	54639	91.79
575	339	0.57	33661	56.55	622	219	0.37	46884	78.77	669	112	0.19	54751	91.98
576	323	0.54	33984	57.09	623	240	0.40	47124	79.17	670	116	0.19	54867	92.18
577	312	0.52	34296	57.62	624	246	0.41	47370	79.58	671	93	0.16	54960	92.33
578	331	0.56	34627	58.17	625	239	0.40	47609	79.98	672	113	0.19	55073	92.52
579	327	0.55	34954	58.72	626	211	0.35	47820	80.34	673	105	0.18	55178	92.70
580	343	0.58	35297	59.30	627	227	0.38	48047	80.72	674	94	0.16	55272	92.86
581	310	0.52	35607	59.82	628	230	0.39	48277	81.11	675	96	0.16	55368	93.02
582	311	0.52	35918	60.34	629	231	0.39	48508	81.49	676	92	0.15	55460	93.17
583	315	0.53	36233	60.87	630	196	0.33	48704	81.82	677	109	0.18	55569	93.36
584	337	0.57	36570	61.44	631	193	0.32	48897	82.15	678	83	0.14	55652	93.50
585	340	0.57	36910	62.01	632	203	0.34	49100	82.49	679	92	0.15	55744	93.65
586	301	0.51	37211	62.52	633	173	0.29	49273	82.78	680	101	0.17	55845	93.82
587	293	0.49	37504	63.01	634	215	0.36	49488	83.14	681	118	0.20	55963	94.02
588	317	0.53	37821	63.54	635	158	0.27	49646	83.41	682	72	0.12	56035	94.14
589	293	0.49	38114	64.03	636	222	0.37	49868	83.78	683	74	0.12	56109	94.26
590	310	0.52	38424	64.55	637	178	0.30	50046	84.08	684	70	0.12	56179	94.38
591	311	0.52	38735	65.08	638	204	0.34	50250	84.42	685	70	0.12	56249	94.50
592	304	0.51	39039	65.59	639	198	0.33	50448	84.75	686	97	0.16	56346	94.66
593	279	0.47	39318	66.06	640	199	0.33	50647	85.09	687	85	0.14	56431	94.81
594	315	0.53	39633	66.58	641	184	0.31	50831	85.40	688	76	0.13	56507	94.93
595	282	0.47	39915	67.06	642	169	0.28	51000	85.68	689	85	0.14	56592	95.08
596	281	0.47	40196	67.53	643	146	0.25	51146	85.93	690	72	0.12	56664	95.20
597	266	0.45	40462	67.98	644	175	0.29	51321	86.22	691	64	0.11	56728	95.30
598	245	0.41	40707	68.39	645	150	0.25	51471	86.47	692	64	0.11	56792	95.41
599	311	0.52	41018	68.91	646	152	0.26	51623	86.73	693	75	0.13	56867	95.54
600	274	0.46	41292	69.37	647	150	0.25	51773	86.98	694	63	0.11	56930	95.64
601	282	0.47	41574	69.85	648	169	0.28	51942	87.26	695	66	0.11	56996	95.75
602	293	0.49	41867	70.34	649	168	0.28	52110	87.55	696	61	0.10	57057	95.86
603	260	0.44	42127	70.77	650	144	0.24	52254	87.79	697	49	0.08	57106	95.94
604	286	0.48	42413	71.25	651	166	0.28	52420	88.07	698	51	0.09	57157	96.03
605	253	0.43	42666	71.68	652	167	0.28	52587	88.35	699	52	0.09	57209	96.11
606	255	0.43	42921	72.11	653	159	0.27	52746	88.61	700	57	0.10	57266	96.21
607	247	0.41	43168	72.52	654	153	0.26	52899	88.87	701	55	0.09	57321	96.30
608	257	0.43	43425	72.95	655	137	0.23	53036	89.10	702	62	0.10	57383	96.40
609	247	0.41	43672	73.37	656	131	0.22	53167	89.32	703	64	0.11	57447	96.51
610	244	0.41	43916	73.78	657	139	0.23	53306	89.56	704	64	0.11	57511	96.62
611	277	0.47	44193	74.25	658	124	0.21	53430	89.76	705	68	0.11	57579	96.73
612	251	0.42	44444	74.67	659	100	0.17	53530	89.93	706	49	0.08	57628	96.82
613	255	0.43	44699	75.10	660	134	0.23	53664	90.16	707	47	0.08	57675	96.90
614	263	0.44	44962	75.54	661	127	0.21	53791	90.37	708	40	0.07	57715	96.96
615	253	0.43	45215	75.96	662	135	0.23	53926	90.60	709	48	0.08	57763	97.04
616	246	0.41	45461	76.38	663	128	0.22	54054	90.81	710	52	0.09	57815	97.13
617	241	0.40	45702	76.78	664	122	0.20	54176	91.02	711	36	0.06	57851	97.19
618	233	0.39	45935	77.17	665	133	0.22	54309	91.24	712	50	0.08	57901	97.28
619	248	0.42	46183	77.59	666	108	0.18	54417	91.42	713	45	0.08	57946	97.35
620	236	0.40	46419	77.98	667	117	0.20	54534	91.62	714	28	0.05	57974	97.40

**Table 182. Writing 9 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
715	41	0.07	58015	97.47	765	12	0.02	59080	99.26	815	13	0.02	59379	99.76
716	36	0.06	58051	97.53	766	5	0.01	59085	99.26	816	7	0.01	59386	99.77
717	29	0.05	58080	97.58	767	11	0.02	59096	99.28	818	2	0.00	59388	99.77
718	44	0.07	58124	97.65	768	5	0.01	59101	99.29	819	2	0.00	59390	99.78
719	39	0.07	58163	97.72	769	9	0.02	59110	99.31	820	1	0.00	59391	99.78
720	45	0.08	58208	97.79	770	10	0.02	59120	99.32	821	4	0.01	59395	99.78
721	18	0.03	58226	97.82	771	9	0.02	59129	99.34	822	1	0.00	59396	99.79
722	18	0.03	58244	97.85	772	14	0.02	59143	99.36	823	2	0.00	59398	99.79
723	26	0.04	58270	97.89	773	10	0.02	59153	99.38	824	4	0.01	59402	99.80
724	23	0.04	58293	97.93	774	3	0.01	59156	99.38	825	3	0.01	59405	99.80
725	28	0.05	58321	97.98	775	11	0.02	59167	99.40	826	1	0.00	59406	99.80
726	28	0.05	58349	98.03	776	6	0.01	59173	99.41	827	1	0.00	59407	99.81
727	40	0.07	58389	98.09	777	12	0.02	59185	99.43	828	3	0.01	59410	99.81
728	24	0.04	58413	98.14	778	8	0.01	59193	99.45	829	1	0.00	59411	99.81
729	17	0.03	58430	98.16	779	9	0.02	59202	99.46	830	1	0.00	59412	99.81
730	34	0.06	58464	98.22	780	12	0.02	59214	99.48	831	1	0.00	59413	99.82
731	34	0.06	58498	98.28	781	10	0.02	59224	99.50	833	1	0.00	59414	99.82
732	27	0.05	58525	98.32	782	9	0.02	59233	99.51	837	1	0.00	59415	99.82
733	18	0.03	58543	98.35	783	7	0.01	59240	99.52	838	2	0.00	59417	99.82
734	32	0.05	58575	98.41	784	12	0.02	59252	99.54	839	1	0.00	59418	99.82
735	29	0.05	58604	98.46	785	4	0.01	59256	99.55	842	2	0.00	59420	99.83
736	31	0.05	58635	98.51	786	2	0.00	59258	99.55	843	1	0.00	59421	99.83
737	28	0.05	58663	98.56	787	6	0.01	59264	99.56	844	2	0.00	59423	99.83
738	22	0.04	58685	98.59	788	6	0.01	59270	99.57	845	2	0.00	59425	99.84
739	31	0.05	58716	98.64	789	9	0.02	59279	99.59	847	2	0.00	59427	99.84
740	23	0.04	58739	98.68	790	8	0.01	59287	99.60	850	2	0.00	59429	99.84
741	19	0.03	58758	98.71	791	9	0.02	59296	99.62	851	4	0.01	59433	99.85
742	22	0.04	58780	98.75	792	3	0.01	59299	99.62	854	7	0.01	59440	99.86
743	12	0.02	58792	98.77	793	4	0.01	59303	99.63	857	1	0.00	59441	99.86
744	11	0.02	58803	98.79	794	4	0.01	59307	99.64	858	3	0.01	59444	99.87
745	16	0.03	58819	98.82	795	1	0.00	59308	99.64	859	1	0.00	59445	99.87
746	14	0.02	58833	98.84	796	1	0.00	59309	99.64	861	1	0.00	59446	99.87
747	15	0.03	58848	98.87	797	1	0.00	59310	99.64	863	9	0.02	59455	99.89
748	13	0.02	58861	98.89	798	1	0.00	59311	99.64	865	1	0.00	59456	99.89
749	11	0.02	58872	98.91	799	3	0.01	59314	99.65	867	1	0.00	59457	99.89
750	24	0.04	58896	98.95	800	5	0.01	59319	99.66	869	12	0.02	59469	99.91
751	13	0.02	58909	98.97	801	2	0.00	59321	99.66	870	5	0.01	59474	99.92
752	24	0.04	58933	99.01	802	6	0.01	59327	99.67	872	1	0.00	59475	99.92
753	18	0.03	58951	99.04	803	5	0.01	59332	99.68	877	3	0.01	59478	99.92
754	15	0.03	58966	99.06	804	3	0.01	59335	99.68	878	1	0.00	59479	99.93
755	16	0.03	58982	99.09	805	4	0.01	59339	99.69	889	1	0.00	59480	99.93
756	11	0.02	58993	99.11	806	2	0.00	59341	99.69	897	7	0.01	59487	99.94
757	12	0.02	59005	99.13	807	4	0.01	59345	99.70	905	7	0.01	59494	99.95
758	8	0.01	59013	99.14	808	5	0.01	59350	99.71	930	29	0.05	59523	100.00
759	13	0.02	59026	99.17	809	3	0.01	59353	99.71					
760	17	0.03	59043	99.19	810	2	0.00	59355	99.72					
761	3	0.01	59046	99.20	811	2	0.00	59357	99.72					
762	11	0.02	59057	99.22	812	6	0.01	59363	99.73					
763	3	0.01	59060	99.22	813	1	0.00	59364	99.73					
764	8	0.01	59068	99.24	814	2	0.00	59366	99.74					

**Table 183. Mathematics 9 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
340	855	1.43	855	1.43	390	25	0.04	1510	2.52	440	58	0.10	3303	5.52
341	10	0.02	865	1.45	391	21	0.04	1531	2.56	441	64	0.11	3367	5.63
342	9	0.02	874	1.46	392	23	0.04	1554	2.60	442	58	0.10	3425	5.73
343	8	0.01	882	1.47	393	25	0.04	1579	2.64	443	62	0.10	3487	5.83
344	11	0.02	893	1.49	394	26	0.04	1605	2.68	444	67	0.11	3554	5.94
345	1	0.00	894	1.49	395	28	0.05	1633	2.73	445	62	0.10	3616	6.04
346	13	0.02	907	1.52	396	19	0.03	1652	2.76	446	62	0.10	3678	6.15
347	11	0.02	918	1.53	397	28	0.05	1680	2.81	447	62	0.10	3740	6.25
348	10	0.02	928	1.55	398	25	0.04	1705	2.85	448	58	0.10	3798	6.35
349	6	0.01	934	1.56	399	33	0.06	1738	2.91	449	61	0.10	3859	6.45
350	13	0.02	947	1.58	400	27	0.05	1765	2.95	450	71	0.12	3930	6.57
351	9	0.02	956	1.60	401	21	0.04	1786	2.99	451	60	0.10	3990	6.67
352	9	0.02	965	1.61	402	18	0.03	1804	3.02	452	63	0.11	4053	6.77
353	12	0.02	977	1.63	403	22	0.04	1826	3.05	453	69	0.12	4122	6.89
354	12	0.02	989	1.65	404	30	0.05	1856	3.10	454	67	0.11	4189	7.00
355	8	0.01	997	1.67	405	20	0.03	1876	3.14	455	61	0.10	4250	7.10
356	11	0.02	1008	1.68	406	41	0.07	1917	3.20	456	62	0.10	4312	7.21
357	9	0.02	1017	1.70	407	38	0.06	1955	3.27	457	68	0.11	4380	7.32
358	12	0.02	1029	1.72	408	28	0.05	1983	3.31	458	83	0.14	4463	7.46
359	13	0.02	1042	1.74	409	26	0.04	2009	3.36	459	65	0.11	4528	7.57
360	10	0.02	1052	1.76	410	22	0.04	2031	3.39	460	85	0.14	4613	7.71
361	7	0.01	1059	1.77	411	35	0.06	2066	3.45	461	97	0.16	4710	7.87
362	18	0.03	1077	1.80	412	28	0.05	2094	3.50	462	76	0.13	4786	8.00
363	9	0.02	1086	1.82	413	25	0.04	2119	3.54	463	88	0.15	4874	8.15
364	10	0.02	1096	1.83	414	35	0.06	2154	3.60	464	89	0.15	4963	8.30
365	8	0.01	1104	1.85	415	32	0.05	2186	3.65	465	89	0.15	5052	8.44
366	14	0.02	1118	1.87	416	31	0.05	2217	3.71	466	79	0.13	5131	8.58
367	15	0.03	1133	1.89	417	33	0.06	2250	3.76	467	108	0.18	5239	8.76
368	16	0.03	1149	1.92	418	36	0.06	2286	3.82	468	94	0.16	5333	8.91
369	7	0.01	1156	1.93	419	45	0.08	2331	3.90	469	94	0.16	5427	9.07
370	14	0.02	1170	1.96	420	38	0.06	2369	3.96	470	99	0.17	5526	9.24
371	14	0.02	1184	1.98	421	23	0.04	2392	4.00	471	83	0.14	5609	9.38
372	12	0.02	1196	2.00	422	34	0.06	2426	4.06	472	106	0.18	5715	9.55
373	12	0.02	1208	2.02	423	28	0.05	2454	4.10	473	92	0.15	5807	9.71
374	16	0.03	1224	2.05	424	44	0.07	2498	4.18	474	110	0.18	5917	9.89
375	18	0.03	1242	2.08	425	53	0.09	2551	4.26	475	106	0.18	6023	10.07
376	16	0.03	1258	2.10	426	46	0.08	2597	4.34	476	116	0.19	6139	10.26
377	20	0.03	1278	2.14	427	45	0.08	2642	4.42	477	115	0.19	6254	10.45
378	14	0.02	1292	2.16	428	43	0.07	2685	4.49	478	125	0.21	6379	10.66
379	12	0.02	1304	2.18	429	37	0.06	2722	4.55	479	111	0.19	6490	10.85
380	17	0.03	1321	2.21	430	44	0.07	2766	4.62	480	111	0.19	6601	11.03
381	12	0.02	1333	2.23	431	36	0.06	2802	4.68	481	131	0.22	6732	11.25
382	15	0.03	1348	2.25	432	65	0.11	2867	4.79	482	127	0.21	6859	11.47
383	19	0.03	1367	2.28	433	65	0.11	2932	4.90	483	124	0.21	6983	11.67
384	15	0.03	1382	2.31	434	44	0.07	2976	4.97	484	105	0.18	7088	11.85
385	17	0.03	1399	2.34	435	51	0.09	3027	5.06	485	134	0.22	7222	12.07
386	19	0.03	1418	2.37	436	56	0.09	3083	5.15	486	150	0.25	7372	12.32
387	23	0.04	1441	2.41	437	49	0.08	3132	5.24	487	119	0.20	7491	12.52
388	23	0.04	1464	2.45	438	52	0.09	3184	5.32	488	147	0.25	7638	12.77
389	21	0.04	1485	2.48	439	61	0.10	3245	5.42	489	146	0.24	7784	13.01

**Table 183. Mathematics 9 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
490	131	0.22	7915	13.23	540	284	0.47	18332	30.64	590	379	0.63	34517	57.70
491	148	0.25	8063	13.48	541	322	0.54	18654	31.18	591	357	0.60	34874	58.29
492	149	0.25	8212	13.73	542	249	0.42	18903	31.60	592	396	0.66	35270	58.96
493	137	0.23	8349	13.96	543	276	0.46	19179	32.06	593	366	0.61	35636	59.57
494	142	0.24	8491	14.19	544	293	0.49	19472	32.55	594	349	0.58	35985	60.15
495	124	0.21	8615	14.40	545	281	0.47	19753	33.02	595	324	0.54	36309	60.69
496	144	0.24	8759	14.64	546	247	0.41	20000	33.43	596	343	0.57	36652	61.27
497	162	0.27	8921	14.91	547	306	0.51	20306	33.94	597	332	0.55	36984	61.82
498	148	0.25	9069	15.16	548	313	0.52	20619	34.47	598	372	0.62	37356	62.44
499	174	0.29	9243	15.45	549	282	0.47	20901	34.94	599	340	0.57	37696	63.01
500	167	0.28	9410	15.73	550	286	0.48	21187	35.41	600	347	0.58	38043	63.59
501	142	0.24	9552	15.97	551	285	0.48	21472	35.89	601	338	0.56	38381	64.16
502	175	0.29	9727	16.26	552	306	0.51	21778	36.40	602	336	0.56	38717	64.72
503	156	0.26	9883	16.52	553	291	0.49	22069	36.89	603	372	0.62	39089	65.34
504	189	0.32	10072	16.84	554	300	0.50	22369	37.39	604	352	0.59	39441	65.93
505	189	0.32	10261	17.15	555	294	0.49	22663	37.88	605	340	0.57	39781	66.50
506	190	0.32	10451	17.47	556	251	0.42	22914	38.30	606	331	0.55	40112	67.05
507	208	0.35	10659	17.82	557	335	0.56	23249	38.86	607	344	0.58	40456	67.62
508	213	0.36	10872	18.17	558	333	0.56	23582	39.42	608	321	0.54	40777	68.16
509	184	0.31	11056	18.48	559	315	0.53	23897	39.94	609	354	0.59	41131	68.75
510	169	0.28	11225	18.76	560	300	0.50	24197	40.45	610	329	0.55	41460	69.30
511	217	0.36	11442	19.13	561	333	0.56	24530	41.00	611	330	0.55	41790	69.85
512	198	0.33	11640	19.46	562	304	0.51	24834	41.51	612	339	0.57	42129	70.42
513	197	0.33	11837	19.79	563	309	0.52	25143	42.03	613	302	0.50	42431	70.93
514	183	0.31	12020	20.09	564	322	0.54	25465	42.57	614	324	0.54	42755	71.47
515	189	0.32	12209	20.41	565	343	0.57	25808	43.14	615	344	0.58	43099	72.04
516	211	0.35	12420	20.76	566	322	0.54	26130	43.68	616	337	0.56	43436	72.61
517	207	0.35	12627	21.11	567	353	0.59	26483	44.27	617	354	0.59	43790	73.20
518	230	0.38	12857	21.49	568	337	0.56	26820	44.83	618	309	0.52	44099	73.71
519	212	0.35	13069	21.85	569	329	0.55	27149	45.38	619	305	0.51	44404	74.22
520	233	0.39	13302	22.23	570	349	0.58	27498	45.96	620	296	0.49	44700	74.72
521	225	0.38	13527	22.61	571	321	0.54	27819	46.50	621	290	0.48	44990	75.20
522	228	0.38	13755	22.99	572	354	0.59	28173	47.09	622	306	0.51	45296	75.71
523	247	0.41	14002	23.40	573	366	0.61	28539	47.70	623	308	0.51	45604	76.23
524	211	0.35	14213	23.76	574	343	0.57	28882	48.28	624	321	0.54	45925	76.77
525	220	0.37	14433	24.13	575	353	0.59	29235	48.87	625	294	0.49	46219	77.26
526	262	0.44	14695	24.56	576	364	0.61	29599	49.48	626	308	0.51	46527	77.77
527	256	0.43	14951	24.99	577	347	0.58	29946	50.06	627	259	0.43	46786	78.20
528	262	0.44	15213	25.43	578	355	0.59	30301	50.65	628	284	0.47	47070	78.68
529	257	0.43	15470	25.86	579	368	0.62	30669	51.26	629	309	0.52	47379	79.20
530	257	0.43	15727	26.29	580	355	0.59	31024	51.86	630	264	0.44	47643	79.64
531	268	0.45	15995	26.74	581	319	0.53	31343	52.39	631	282	0.47	47925	80.11
532	246	0.41	16241	27.15	582	378	0.63	31721	53.02	632	275	0.46	48200	80.57
533	251	0.42	16492	27.57	583	357	0.60	32078	53.62	633	289	0.48	48489	81.05
534	232	0.39	16724	27.95	584	313	0.52	32391	54.14	634	268	0.45	48757	81.50
535	260	0.43	16984	28.39	585	353	0.59	32744	54.73	635	248	0.41	49005	81.91
536	270	0.45	17254	28.84	586	354	0.59	33098	55.32	636	284	0.47	49289	82.39
537	280	0.47	17534	29.31	587	362	0.61	33460	55.93	637	285	0.48	49574	82.87
538	257	0.43	17791	29.74	588	347	0.58	33807	56.51	638	300	0.50	49874	83.37
539	257	0.43	18048	30.17	589	331	0.55	34138	57.06	639	249	0.42	50123	83.78



**Table 183. Mathematics 9 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
640	252	0.42	50375	84.20	687	78	0.13	57928	96.83	734	8	0.01	59656	99.72
641	247	0.41	50622	84.62	688	69	0.12	57997	96.94	735	13	0.02	59669	99.74
642	248	0.41	50870	85.03	689	77	0.13	58074	97.07	736	9	0.02	59678	99.75
643	248	0.41	51118	85.45	690	81	0.14	58155	97.21	737	8	0.01	59686	99.77
644	236	0.39	51354	85.84	691	80	0.13	58235	97.34	738	8	0.01	59694	99.78
645	253	0.42	51607	86.26	692	69	0.12	58304	97.46	739	9	0.02	59703	99.80
646	227	0.38	51834	86.64	693	78	0.13	58382	97.59	740	4	0.01	59707	99.80
647	222	0.37	52056	87.01	694	62	0.10	58444	97.69	741	7	0.01	59714	99.81
648	206	0.34	52262	87.36	695	60	0.10	58504	97.79	742	6	0.01	59720	99.82
649	198	0.33	52460	87.69	696	58	0.10	58562	97.89	743	9	0.02	59729	99.84
650	222	0.37	52682	88.06	697	65	0.11	58627	98.00	744	6	0.01	59735	99.85
651	198	0.33	52880	88.39	698	48	0.08	58675	98.08	745	4	0.01	59739	99.86
652	191	0.32	53071	88.71	699	58	0.10	58733	98.17	746	4	0.01	59743	99.86
653	220	0.37	53291	89.08	700	39	0.07	58772	98.24	747	3	0.01	59746	99.87
654	175	0.29	53466	89.37	701	53	0.09	58825	98.33	748	6	0.01	59752	99.88
655	213	0.36	53679	89.73	702	46	0.08	58871	98.41	749	4	0.01	59756	99.88
656	164	0.27	53843	90.00	703	49	0.08	58920	98.49	750	3	0.01	59759	99.89
657	207	0.35	54050	90.35	704	50	0.08	58970	98.57	751	1	0.00	59760	99.89
658	188	0.31	54238	90.66	705	49	0.08	59019	98.65	752	6	0.01	59766	99.90
659	165	0.28	54403	90.94	706	47	0.08	59066	98.73	753	4	0.01	59770	99.91
660	193	0.32	54596	91.26	707	41	0.07	59107	98.80	754	2	0.00	59772	99.91
661	161	0.27	54757	91.53	708	36	0.06	59143	98.86	755	2	0.00	59774	99.91
662	160	0.27	54917	91.80	709	28	0.05	59171	98.91	756	4	0.01	59778	99.92
663	170	0.28	55087	92.08	710	30	0.05	59201	98.96	757	3	0.01	59781	99.93
664	162	0.27	55249	92.35	711	38	0.06	59239	99.02	758	4	0.01	59785	99.93
665	156	0.26	55405	92.61	712	23	0.04	59262	99.06	759	4	0.01	59789	99.94
666	129	0.22	55534	92.83	713	25	0.04	59287	99.10	760	1	0.00	59790	99.94
667	150	0.25	55684	93.08	714	28	0.05	59315	99.15	761	3	0.01	59793	99.95
668	154	0.26	55838	93.34	715	31	0.05	59346	99.20	762	1	0.00	59794	99.95
669	132	0.22	55970	93.56	716	23	0.04	59369	99.24	764	1	0.00	59795	99.95
670	127	0.21	56097	93.77	717	27	0.05	59396	99.28	765	1	0.00	59796	99.95
671	139	0.23	56236	94.00	718	25	0.04	59421	99.32	766	2	0.00	59798	99.95
672	125	0.21	56361	94.21	719	22	0.04	59443	99.36	767	1	0.00	59799	99.96
673	128	0.21	56489	94.42	720	18	0.03	59461	99.39	768	1	0.00	59800	99.96
674	135	0.23	56624	94.65	721	12	0.02	59473	99.41	769	1	0.00	59801	99.96
675	115	0.19	56739	94.84	722	21	0.04	59494	99.45	770	1	0.00	59802	99.96
676	119	0.20	56858	95.04	723	27	0.05	59521	99.49	771	1	0.00	59803	99.96
677	113	0.19	56971	95.23	724	14	0.02	59535	99.52	772	2	0.00	59805	99.97
678	113	0.19	57084	95.42	725	19	0.03	59554	99.55	775	2	0.00	59807	99.97
679	114	0.19	57198	95.61	726	19	0.03	59573	99.58	777	2	0.00	59809	99.97
680	101	0.17	57299	95.78	727	12	0.02	59585	99.60	780	1	0.00	59810	99.97
681	87	0.15	57386	95.92	728	10	0.02	59595	99.62	781	1	0.00	59811	99.98
682	96	0.16	57482	96.08	729	12	0.02	59607	99.64	784	2	0.00	59813	99.98
683	89	0.15	57571	96.23	730	9	0.02	59616	99.65	786	1	0.00	59814	99.98
684	98	0.16	57669	96.40	731	9	0.02	59625	99.67	787	1	0.00	59815	99.98
685	84	0.14	57753	96.54	732	13	0.02	59638	99.69	789	1	0.00	59816	99.98
686	97	0.16	57850	96.70	733	10	0.02	59648	99.70	797	1	0.00	59817	99.99

**Table 183. Mathematics 9 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq.</b>	<b>%</b>	<b>Cum. Freq.</b>	<b>Cum. %</b>
799	1	0.00	59818	99.99
811	1	0.00	59819	99.99
812	1	0.00	59820	99.99
819	1	0.00	59821	99.99
820	1	0.00	59822	99.99
823	1	0.00	59823	100.00
839	1	0.00	59824	100.00
859	1	0.00	59825	100.00

**Table 184. Reading 10 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
370	294	0.54	294	0.54	448	2	0.00	376	0.69	501	10	0.02	570	1.04
371	1	0.00	295	0.54	449	2	0.00	378	0.69	502	6	0.01	576	1.05
372	1	0.00	296	0.54	450	2	0.00	380	0.69	503	3	0.01	579	1.06
373	2	0.00	298	0.54	451	3	0.01	383	0.70	504	8	0.01	587	1.07
374	1	0.00	299	0.55	452	2	0.00	385	0.70	505	9	0.02	596	1.09
375	2	0.00	301	0.55	453	2	0.00	387	0.71	506	8	0.01	604	1.10
378	4	0.01	305	0.56	454	1	0.00	388	0.71	507	15	0.03	619	1.13
379	1	0.00	306	0.56	455	4	0.01	392	0.72	508	8	0.01	627	1.15
381	1	0.00	307	0.56	456	5	0.01	397	0.73	509	7	0.01	634	1.16
382	3	0.01	310	0.57	457	1	0.00	398	0.73	510	8	0.01	642	1.17
384	1	0.00	311	0.57	458	3	0.01	401	0.73	511	5	0.01	647	1.18
385	2	0.00	313	0.57	459	4	0.01	405	0.74	512	8	0.01	655	1.20
386	1	0.00	314	0.57	461	2	0.00	407	0.74	513	14	0.03	669	1.22
387	2	0.00	316	0.58	463	3	0.01	410	0.75	514	9	0.02	678	1.24
389	1	0.00	317	0.58	464	1	0.00	411	0.75	515	9	0.02	687	1.26
390	4	0.01	321	0.59	466	2	0.00	413	0.76	516	7	0.01	694	1.27
391	4	0.01	325	0.59	467	2	0.00	415	0.76	517	8	0.01	702	1.28
393	1	0.00	326	0.60	468	2	0.00	417	0.76	518	13	0.02	715	1.31
394	1	0.00	327	0.60	469	2	0.00	419	0.77	519	13	0.02	728	1.33
396	1	0.00	328	0.60	470	5	0.01	424	0.78	520	12	0.02	740	1.35
398	1	0.00	329	0.60	471	2	0.00	426	0.78	521	18	0.03	758	1.39
399	1	0.00	330	0.60	472	3	0.01	429	0.78	522	10	0.02	768	1.40
402	1	0.00	331	0.61	473	1	0.00	430	0.79	523	17	0.03	785	1.44
403	2	0.00	333	0.61	474	3	0.01	433	0.79	524	10	0.02	795	1.45
406	1	0.00	334	0.61	475	4	0.01	437	0.80	525	13	0.02	808	1.48
408	1	0.00	335	0.61	476	5	0.01	442	0.81	526	10	0.02	818	1.50
409	1	0.00	336	0.61	477	2	0.00	444	0.81	527	8	0.01	826	1.51
411	2	0.00	338	0.62	478	1	0.00	445	0.81	528	13	0.02	839	1.53
412	1	0.00	339	0.62	479	3	0.01	448	0.82	529	10	0.02	849	1.55
413	1	0.00	340	0.62	480	4	0.01	452	0.83	530	15	0.03	864	1.58
414	1	0.00	341	0.62	481	2	0.00	454	0.83	531	16	0.03	880	1.61
417	3	0.01	344	0.63	482	4	0.01	458	0.84	532	16	0.03	896	1.64
418	3	0.01	347	0.63	483	5	0.01	463	0.85	533	13	0.02	909	1.66
419	2	0.00	349	0.64	484	10	0.02	473	0.86	534	15	0.03	924	1.69
420	1	0.00	350	0.64	485	4	0.01	477	0.87	535	12	0.02	936	1.71
421	2	0.00	352	0.64	486	4	0.01	481	0.88	536	17	0.03	953	1.74
422	1	0.00	353	0.65	487	3	0.01	484	0.88	537	15	0.03	968	1.77
423	2	0.00	355	0.65	488	2	0.00	486	0.89	538	15	0.03	983	1.80
424	1	0.00	356	0.65	489	9	0.02	495	0.90	539	16	0.03	999	1.83
426	1	0.00	357	0.65	490	3	0.01	498	0.91	540	31	0.06	1030	1.88
427	3	0.01	360	0.66	491	11	0.02	509	0.93	541	16	0.03	1046	1.91
429	3	0.01	363	0.66	492	5	0.01	514	0.94	542	21	0.04	1067	1.95
432	1	0.00	364	0.67	493	7	0.01	521	0.95	543	21	0.04	1088	1.99
435	1	0.00	365	0.67	494	2	0.00	523	0.96	544	19	0.03	1107	2.02
437	1	0.00	366	0.67	495	6	0.01	529	0.97	545	27	0.05	1134	2.07
439	1	0.00	367	0.67	496	3	0.01	532	0.97	546	17	0.03	1151	2.10
440	1	0.00	368	0.67	497	8	0.01	540	0.99	547	28	0.05	1179	2.16
443	2	0.00	370	0.68	498	4	0.01	544	0.99	548	31	0.06	1210	2.21
444	2	0.00	372	0.68	499	8	0.01	552	1.01	549	23	0.04	1233	2.25
446	2	0.00	374	0.68	500	8	0.01	560	1.02	550	20	0.04	1253	2.29

**Table 184. Reading 10 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
551	20	0.04	1273	2.33	601	110	0.20	4208	7.69	651	283	0.52	12516	22.88
552	29	0.05	1302	2.38	602	107	0.20	4315	7.89	652	265	0.48	12781	23.37
553	20	0.04	1322	2.42	603	113	0.21	4428	8.10	653	279	0.51	13060	23.88
554	45	0.08	1367	2.50	604	120	0.22	4548	8.31	654	285	0.52	13345	24.40
555	34	0.06	1401	2.56	605	100	0.18	4648	8.50	655	260	0.48	13605	24.87
556	42	0.08	1443	2.64	606	104	0.19	4752	8.69	656	304	0.56	13909	25.43
557	33	0.06	1476	2.70	607	93	0.17	4845	8.86	657	313	0.57	14222	26.00
558	35	0.06	1511	2.76	608	117	0.21	4962	9.07	658	295	0.54	14517	26.54
559	44	0.08	1555	2.84	609	105	0.19	5067	9.26	659	296	0.54	14813	27.08
560	30	0.05	1585	2.90	610	100	0.18	5167	9.45	660	301	0.55	15114	27.63
561	36	0.07	1621	2.96	611	98	0.18	5265	9.63	661	304	0.56	15418	28.19
562	38	0.07	1659	3.03	612	115	0.21	5380	9.84	662	305	0.56	15723	28.75
563	47	0.09	1706	3.12	613	132	0.24	5512	10.08	663	330	0.60	16053	29.35
564	33	0.06	1739	3.18	614	103	0.19	5615	10.27	664	329	0.60	16382	29.95
565	41	0.07	1780	3.25	615	139	0.25	5754	10.52	665	350	0.64	16732	30.59
566	44	0.08	1824	3.33	616	127	0.23	5881	10.75	666	363	0.66	17095	31.25
567	39	0.07	1863	3.41	617	130	0.24	6011	10.99	667	351	0.64	17446	31.90
568	45	0.08	1908	3.49	618	139	0.25	6150	11.24	668	338	0.62	17784	32.51
569	45	0.08	1953	3.57	619	137	0.25	6287	11.49	669	359	0.66	18143	33.17
570	32	0.06	1985	3.63	620	157	0.29	6444	11.78	670	394	0.72	18537	33.89
571	55	0.10	2040	3.73	621	143	0.26	6587	12.04	671	379	0.69	18916	34.58
572	42	0.08	2082	3.81	622	151	0.28	6738	12.32	672	367	0.67	19283	35.25
573	47	0.09	2129	3.89	623	165	0.30	6903	12.62	673	410	0.75	19693	36.00
574	52	0.10	2181	3.99	624	157	0.29	7060	12.91	674	394	0.72	20087	36.72
575	67	0.12	2248	4.11	625	160	0.29	7220	13.20	675	390	0.71	20477	37.44
576	56	0.10	2304	4.21	626	162	0.30	7382	13.50	676	422	0.77	20899	38.21
577	68	0.12	2372	4.34	627	141	0.26	7523	13.75	677	428	0.78	21327	38.99
578	57	0.10	2429	4.44	628	171	0.31	7694	14.07	678	364	0.67	21691	39.66
579	64	0.12	2493	4.56	629	157	0.29	7851	14.35	679	406	0.74	22097	40.40
580	70	0.13	2563	4.69	630	159	0.29	8010	14.64	680	433	0.79	22530	41.19
581	54	0.10	2617	4.78	631	171	0.31	8181	14.96	681	438	0.80	22968	41.99
582	62	0.11	2679	4.90	632	184	0.34	8365	15.29	682	396	0.72	23364	42.72
583	68	0.12	2747	5.02	633	193	0.35	8558	15.65	683	457	0.84	23821	43.55
584	73	0.13	2820	5.16	634	175	0.32	8733	15.97	684	445	0.81	24266	44.36
585	67	0.12	2887	5.28	635	179	0.33	8912	16.29	685	450	0.82	24716	45.19
586	63	0.12	2950	5.39	636	178	0.33	9090	16.62	686	460	0.84	25176	46.03
587	76	0.14	3026	5.53	637	208	0.38	9298	17.00	687	444	0.81	25620	46.84
588	79	0.14	3105	5.68	638	201	0.37	9499	17.37	688	411	0.75	26031	47.59
589	59	0.11	3164	5.78	639	216	0.39	9715	17.76	689	456	0.83	26487	48.42
590	94	0.17	3258	5.96	640	205	0.37	9920	18.14	690	451	0.82	26938	49.25
591	68	0.12	3326	6.08	641	178	0.33	10098	18.46	691	471	0.86	27409	50.11
592	97	0.18	3423	6.26	642	212	0.39	10310	18.85	692	433	0.79	27842	50.90
593	79	0.14	3502	6.40	643	220	0.40	10530	19.25	693	430	0.79	28272	51.69
594	79	0.14	3581	6.55	644	232	0.42	10762	19.68	694	460	0.84	28732	52.53
595	80	0.15	3661	6.69	645	234	0.43	10996	20.10	695	451	0.82	29183	53.35
596	81	0.15	3742	6.84	646	248	0.45	11244	20.56	696	488	0.89	29671	54.25
597	91	0.17	3833	7.01	647	233	0.43	11477	20.98	697	436	0.80	30107	55.04
598	81	0.15	3914	7.16	648	238	0.44	11715	21.42	698	473	0.86	30580	55.91
599	88	0.16	4002	7.32	649	240	0.44	11955	21.86	699	499	0.91	31079	56.82
600	96	0.18	4098	7.49	650	278	0.51	12233	22.37	700	455	0.83	31534	57.65

**Table 184. Reading 10 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
701	485	0.89	32019	58.54	748	207	0.38	50075	91.55	795	12	0.02	54457	99.56
702	494	0.90	32513	59.44	749	231	0.42	50306	91.97	796	14	0.03	54471	99.59
703	480	0.88	32993	60.32	750	215	0.39	50521	92.37	797	12	0.02	54483	99.61
704	472	0.86	33465	61.18	751	196	0.36	50717	92.72	798	12	0.02	54495	99.63
705	517	0.95	33982	62.13	752	205	0.37	50922	93.10	799	13	0.02	54508	99.65
706	447	0.82	34429	62.94	753	199	0.36	51121	93.46	800	10	0.02	54518	99.67
707	449	0.82	34878	63.77	754	188	0.34	51309	93.81	801	12	0.02	54530	99.69
708	462	0.84	35340	64.61	755	181	0.33	51490	94.14	802	7	0.01	54537	99.71
709	457	0.84	35797	65.45	756	198	0.36	51688	94.50	803	12	0.02	54549	99.73
710	486	0.89	36283	66.33	757	152	0.28	51840	94.78	804	6	0.01	54555	99.74
711	461	0.84	36744	67.18	758	146	0.27	51986	95.04	805	18	0.03	54573	99.77
712	465	0.85	37209	68.03	759	152	0.28	52138	95.32	806	9	0.02	54582	99.79
713	470	0.86	37679	68.89	760	116	0.21	52254	95.53	807	9	0.02	54591	99.81
714	464	0.85	38143	69.74	761	120	0.22	52374	95.75	808	8	0.01	54599	99.82
715	497	0.91	38640	70.64	762	146	0.27	52520	96.02	809	6	0.01	54605	99.83
716	416	0.76	39056	71.40	763	114	0.21	52634	96.23	810	3	0.01	54608	99.84
717	446	0.82	39502	72.22	764	132	0.24	52766	96.47	811	10	0.02	54618	99.86
718	409	0.75	39911	72.97	765	102	0.19	52868	96.66	812	9	0.02	54627	99.87
719	439	0.80	40350	73.77	766	99	0.18	52967	96.84	813	6	0.01	54633	99.88
720	416	0.76	40766	74.53	767	95	0.17	53062	97.01	814	4	0.01	54637	99.89
721	431	0.79	41197	75.32	768	91	0.17	53153	97.18	815	5	0.01	54642	99.90
722	425	0.78	41622	76.10	769	90	0.16	53243	97.34	816	5	0.01	54647	99.91
723	409	0.75	42031	76.84	770	102	0.19	53345	97.53	817	2	0.00	54649	99.91
724	401	0.73	42432	77.58	771	85	0.16	53430	97.68	818	3	0.01	54652	99.92
725	410	0.75	42842	78.33	772	92	0.17	53522	97.85	819	3	0.01	54655	99.92
726	392	0.72	43234	79.04	773	67	0.12	53589	97.97	820	3	0.01	54658	99.93
727	381	0.70	43615	79.74	774	62	0.11	53651	98.09	821	1	0.00	54659	99.93
728	374	0.68	43989	80.42	775	65	0.12	53716	98.21	822	3	0.01	54662	99.94
729	359	0.66	44348	81.08	776	60	0.11	53776	98.32	823	1	0.00	54663	99.94
730	384	0.70	44732	81.78	777	66	0.12	53842	98.44	825	2	0.00	54665	99.94
731	360	0.66	45092	82.44	778	71	0.13	53913	98.57	826	1	0.00	54666	99.94
732	341	0.62	45433	83.06	779	49	0.09	53962	98.66	827	2	0.00	54668	99.95
733	364	0.67	45797	83.73	780	47	0.09	54009	98.74	828	3	0.01	54671	99.95
734	329	0.60	46126	84.33	781	50	0.09	54059	98.83	829	3	0.01	54674	99.96
735	329	0.60	46455	84.93	782	46	0.08	54105	98.92	830	1	0.00	54675	99.96
736	315	0.58	46770	85.51	783	34	0.06	54139	98.98	832	2	0.00	54677	99.96
737	300	0.55	47070	86.06	784	43	0.08	54182	99.06	833	2	0.00	54679	99.97
738	298	0.54	47368	86.60	785	30	0.05	54212	99.11	834	2	0.00	54681	99.97
739	289	0.53	47657	87.13	786	29	0.05	54241	99.17	835	2	0.00	54683	99.97
740	312	0.57	47969	87.70	787	31	0.06	54272	99.22	836	1	0.00	54684	99.98
741	293	0.54	48262	88.24	788	24	0.04	54296	99.27	837	1	0.00	54685	99.98
742	278	0.51	48540	88.74	789	30	0.05	54326	99.32	838	1	0.00	54686	99.98
743	264	0.48	48804	89.23	790	28	0.05	54354	99.37	839	1	0.00	54687	99.98
744	275	0.50	49079	89.73	791	26	0.05	54380	99.42	840	2	0.00	54689	99.99
745	270	0.49	49349	90.22	792	29	0.05	54409	99.47	841	2	0.00	54691	99.99
746	269	0.49	49618	90.71	793	15	0.03	54424	99.50	843	1	0.00	54692	99.99
747	250	0.46	49868	91.17	794	21	0.04	54445	99.54	844	1	0.00	54693	99.99

**Table 184. Reading 10 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq.</b>	<b>%</b>	<b>Cum. Freq.</b>	<b>Cum. %</b>
<b>848</b>	1	0.00	54694	99.99
<b>865</b>	1	0.00	54695	100.00
<b>876</b>	1	0.00	54696	100.00
<b>881</b>	1	0.00	54697	100.00

**Table 185. Writing 10 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
270	65	0.12	65	0.12	335	3	0.01	159	0.29	385	16	0.03	629	1.15
271	1	0.00	66	0.12	336	3	0.01	162	0.30	386	19	0.03	648	1.18
272	2	0.00	68	0.12	337	2	0.00	164	0.30	387	17	0.03	665	1.22
275	1	0.00	69	0.13	338	4	0.01	168	0.31	388	20	0.04	685	1.25
277	1	0.00	70	0.13	339	8	0.01	176	0.32	389	17	0.03	702	1.28
279	1	0.00	71	0.13	340	2	0.00	178	0.33	390	15	0.03	717	1.31
280	1	0.00	72	0.13	341	4	0.01	182	0.33	391	17	0.03	734	1.34
283	1	0.00	73	0.13	342	4	0.01	186	0.34	392	17	0.03	751	1.37
284	2	0.00	75	0.14	343	10	0.02	196	0.36	393	21	0.04	772	1.41
285	1	0.00	76	0.14	344	4	0.01	200	0.37	394	34	0.06	806	1.47
286	2	0.00	78	0.14	345	2	0.00	202	0.37	395	22	0.04	828	1.51
288	1	0.00	79	0.14	346	6	0.01	208	0.38	396	17	0.03	845	1.55
290	2	0.00	81	0.15	347	6	0.01	214	0.39	397	12	0.02	857	1.57
291	2	0.00	83	0.15	348	9	0.02	223	0.41	398	26	0.05	883	1.61
293	3	0.01	86	0.16	349	7	0.01	230	0.42	399	32	0.06	915	1.67
294	1	0.00	87	0.16	350	6	0.01	236	0.43	400	24	0.04	939	1.72
295	3	0.01	90	0.16	351	7	0.01	243	0.44	401	27	0.05	966	1.77
296	2	0.00	92	0.17	352	2	0.00	245	0.45	402	27	0.05	993	1.82
297	2	0.00	94	0.17	353	13	0.02	258	0.47	403	24	0.04	1017	1.86
298	2	0.00	96	0.18	354	6	0.01	264	0.48	404	28	0.05	1045	1.91
302	2	0.00	98	0.18	355	1	0.00	265	0.48	405	20	0.04	1065	1.95
303	1	0.00	99	0.18	356	16	0.03	281	0.51	406	31	0.06	1096	2.00
304	3	0.01	102	0.19	357	9	0.02	290	0.53	407	25	0.05	1121	2.05
305	2	0.00	104	0.19	358	17	0.03	307	0.56	408	24	0.04	1145	2.09
306	2	0.00	106	0.19	359	11	0.02	318	0.58	409	34	0.06	1179	2.16
307	1	0.00	107	0.20	360	10	0.02	328	0.60	410	30	0.05	1209	2.21
308	1	0.00	108	0.20	361	4	0.01	332	0.61	411	28	0.05	1237	2.26
310	1	0.00	109	0.20	362	12	0.02	344	0.63	412	30	0.05	1267	2.32
311	2	0.00	111	0.20	363	13	0.02	357	0.65	413	31	0.06	1298	2.37
312	2	0.00	113	0.21	364	9	0.02	366	0.67	414	40	0.07	1338	2.45
313	3	0.01	116	0.21	365	10	0.02	376	0.69	415	25	0.05	1363	2.49
314	1	0.00	117	0.21	366	7	0.01	383	0.70	416	26	0.05	1389	2.54
315	1	0.00	118	0.22	367	14	0.03	397	0.73	417	31	0.06	1420	2.60
317	1	0.00	119	0.22	368	5	0.01	402	0.74	418	33	0.06	1453	2.66
318	4	0.01	123	0.22	369	13	0.02	415	0.76	419	22	0.04	1475	2.70
319	2	0.00	125	0.23	370	10	0.02	425	0.78	420	34	0.06	1509	2.76
320	2	0.00	127	0.23	371	5	0.01	430	0.79	421	49	0.09	1558	2.85
321	1	0.00	128	0.23	372	12	0.02	442	0.81	422	47	0.09	1605	2.94
322	1	0.00	129	0.24	373	9	0.02	451	0.82	423	39	0.07	1644	3.01
324	2	0.00	131	0.24	374	9	0.02	460	0.84	424	50	0.09	1694	3.10
325	2	0.00	133	0.24	375	14	0.03	474	0.87	425	47	0.09	1741	3.18
326	6	0.01	139	0.25	376	21	0.04	495	0.91	426	45	0.08	1786	3.27
327	3	0.01	142	0.26	377	14	0.03	509	0.93	427	45	0.08	1831	3.35
328	1	0.00	143	0.26	378	12	0.02	521	0.95	428	44	0.08	1875	3.43
329	2	0.00	145	0.27	379	15	0.03	536	0.98	429	58	0.11	1933	3.53
330	1	0.00	146	0.27	380	18	0.03	554	1.01	430	57	0.10	1990	3.64
331	2	0.00	148	0.27	381	9	0.02	563	1.03	431	48	0.09	2038	3.73
332	4	0.01	152	0.28	382	15	0.03	578	1.06	432	62	0.11	2100	3.84
333	2	0.00	154	0.28	383	25	0.05	603	1.10	433	52	0.10	2152	3.94
334	2	0.00	156	0.29	384	10	0.02	613	1.12	434	53	0.10	2205	4.03

**Table 185. Writing 10 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
435	45	0.08	2250	4.11	485	117	0.21	6815	12.46	535	242	0.44	15223	27.84
436	71	0.13	2321	4.24	486	132	0.24	6947	12.70	536	243	0.44	15466	28.28
437	71	0.13	2392	4.37	487	123	0.22	7070	12.93	537	258	0.47	15724	28.75
438	62	0.11	2454	4.49	488	127	0.23	7197	13.16	538	236	0.43	15960	29.19
439	58	0.11	2512	4.59	489	138	0.25	7335	13.41	539	212	0.39	16172	29.57
440	65	0.12	2577	4.71	490	104	0.19	7439	13.60	540	239	0.44	16411	30.01
441	60	0.11	2637	4.82	491	136	0.25	7575	13.85	541	234	0.43	16645	30.44
442	66	0.12	2703	4.94	492	108	0.20	7683	14.05	542	227	0.42	16872	30.85
443	67	0.12	2770	5.07	493	122	0.22	7805	14.27	543	238	0.44	17110	31.29
444	86	0.16	2856	5.22	494	119	0.22	7924	14.49	544	237	0.43	17347	31.72
445	78	0.14	2934	5.37	495	138	0.25	8062	14.74	545	244	0.45	17591	32.17
446	77	0.14	3011	5.51	496	132	0.24	8194	14.98	546	253	0.46	17844	32.63
447	75	0.14	3086	5.64	497	144	0.26	8338	15.25	547	245	0.45	18089	33.08
448	70	0.13	3156	5.77	498	124	0.23	8462	15.47	548	234	0.43	18323	33.51
449	71	0.13	3227	5.90	499	143	0.26	8605	15.74	549	251	0.46	18574	33.97
450	76	0.14	3303	6.04	500	144	0.26	8749	16.00	550	249	0.46	18823	34.42
451	79	0.14	3382	6.18	501	164	0.30	8913	16.30	551	255	0.47	19078	34.89
452	77	0.14	3459	6.33	502	130	0.24	9043	16.54	552	233	0.43	19311	35.31
453	82	0.15	3541	6.48	503	165	0.30	9208	16.84	553	279	0.51	19590	35.82
454	76	0.14	3617	6.61	504	163	0.30	9371	17.14	554	263	0.48	19853	36.30
455	86	0.16	3703	6.77	505	165	0.30	9536	17.44	555	252	0.46	20105	36.77
456	79	0.14	3782	6.92	506	153	0.28	9689	17.72	556	293	0.54	20398	37.30
457	86	0.16	3868	7.07	507	155	0.28	9844	18.00	557	267	0.49	20665	37.79
458	84	0.15	3952	7.23	508	138	0.25	9982	18.25	558	274	0.50	20939	38.29
459	90	0.16	4042	7.39	509	167	0.31	10149	18.56	559	263	0.48	21202	38.77
460	98	0.18	4140	7.57	510	166	0.30	10315	18.86	560	276	0.50	21478	39.28
461	107	0.20	4247	7.77	511	174	0.32	10489	19.18	561	256	0.47	21734	39.74
462	88	0.16	4335	7.93	512	156	0.29	10645	19.47	562	283	0.52	22017	40.26
463	78	0.14	4413	8.07	513	168	0.31	10813	19.77	563	258	0.47	22275	40.73
464	100	0.18	4513	8.25	514	183	0.33	10996	20.11	564	262	0.48	22537	41.21
465	84	0.15	4597	8.41	515	177	0.32	11173	20.43	565	261	0.48	22798	41.69
466	112	0.20	4709	8.61	516	195	0.36	11368	20.79	566	281	0.51	23079	42.20
467	92	0.17	4801	8.78	517	194	0.35	11562	21.14	567	237	0.43	23316	42.64
468	93	0.17	4894	8.95	518	180	0.33	11742	21.47	568	278	0.51	23594	43.15
469	109	0.20	5003	9.15	519	182	0.33	11924	21.81	569	302	0.55	23896	43.70
470	110	0.20	5113	9.35	520	201	0.37	12125	22.17	570	277	0.51	24173	44.20
471	113	0.21	5226	9.56	521	184	0.34	12309	22.51	571	271	0.50	24444	44.70
472	96	0.18	5322	9.73	522	172	0.31	12481	22.82	572	303	0.55	24747	45.25
473	105	0.19	5427	9.92	523	190	0.35	12671	23.17	573	270	0.49	25017	45.75
474	106	0.19	5533	10.12	524	192	0.35	12863	23.52	574	270	0.49	25287	46.24
475	96	0.18	5629	10.29	525	193	0.35	13056	23.88	575	298	0.54	25585	46.79
476	112	0.20	5741	10.50	526	218	0.40	13274	24.27	576	294	0.54	25879	47.32
477	99	0.18	5840	10.68	527	209	0.38	13483	24.66	577	317	0.58	26196	47.90
478	113	0.21	5953	10.89	528	195	0.36	13678	25.01	578	288	0.53	26484	48.43
479	126	0.23	6079	11.12	529	206	0.38	13884	25.39	579	276	0.50	26760	48.94
480	122	0.22	6201	11.34	530	202	0.37	14086	25.76	580	274	0.50	27034	49.44
481	119	0.22	6320	11.56	531	201	0.37	14287	26.13	581	280	0.51	27314	49.95
482	123	0.22	6443	11.78	532	231	0.42	14518	26.55	582	260	0.48	27574	50.42
483	121	0.22	6564	12.00	533	238	0.44	14756	26.98	583	277	0.51	27851	50.93
484	134	0.25	6698	12.25	534	225	0.41	14981	27.40	584	289	0.53	28140	51.46



**Table 185. Writing 10 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
585	306	0.56	28446	52.02	635	217	0.40	41566	76.01	685	109	0.20	49771	91.02
586	260	0.48	28706	52.49	636	186	0.34	41752	76.35	686	116	0.21	49887	91.23
587	245	0.45	28951	52.94	637	201	0.37	41953	76.72	687	107	0.20	49994	91.42
588	293	0.54	29244	53.48	638	193	0.35	42146	77.07	688	111	0.20	50105	91.63
589	285	0.52	29529	54.00	639	222	0.41	42368	77.48	689	114	0.21	50219	91.83
590	321	0.59	29850	54.59	640	227	0.42	42595	77.89	690	102	0.19	50321	92.02
591	275	0.50	30125	55.09	641	210	0.38	42805	78.28	691	89	0.16	50410	92.18
592	277	0.51	30402	55.60	642	186	0.34	42991	78.62	692	114	0.21	50524	92.39
593	278	0.51	30680	56.10	643	206	0.38	43197	78.99	693	96	0.18	50620	92.57
594	261	0.48	30941	56.58	644	198	0.36	43395	79.36	694	103	0.19	50723	92.76
595	248	0.45	31189	57.03	645	195	0.36	43590	79.71	695	86	0.16	50809	92.91
596	296	0.54	31485	57.58	646	196	0.36	43786	80.07	696	89	0.16	50898	93.08
597	314	0.57	31799	58.15	647	200	0.37	43986	80.44	697	83	0.15	50981	93.23
598	285	0.52	32084	58.67	648	160	0.29	44146	80.73	698	94	0.17	51075	93.40
599	283	0.52	32367	59.19	649	207	0.38	44353	81.11	699	87	0.16	51162	93.56
600	302	0.55	32669	59.74	650	172	0.31	44525	81.42	700	78	0.14	51240	93.70
601	247	0.45	32916	60.19	651	193	0.35	44718	81.78	701	73	0.13	51313	93.84
602	314	0.57	33230	60.77	652	208	0.38	44926	82.16	702	65	0.12	51378	93.95
603	275	0.50	33505	61.27	653	161	0.29	45087	82.45	703	105	0.19	51483	94.15
604	289	0.53	33794	61.80	654	184	0.34	45271	82.79	704	79	0.14	51562	94.29
605	262	0.48	34056	62.28	655	171	0.31	45442	83.10	705	86	0.16	51648	94.45
606	291	0.53	34347	62.81	656	179	0.33	45621	83.43	706	72	0.13	51720	94.58
607	297	0.54	34644	63.35	657	192	0.35	45813	83.78	707	67	0.12	51787	94.70
608	256	0.47	34900	63.82	658	158	0.29	45971	84.07	708	63	0.12	51850	94.82
609	263	0.48	35163	64.30	659	176	0.32	46147	84.39	709	85	0.16	51935	94.97
610	288	0.53	35451	64.83	660	157	0.29	46304	84.68	710	80	0.15	52015	95.12
611	261	0.48	35712	65.31	661	148	0.27	46452	84.95	711	70	0.13	52085	95.25
612	287	0.52	35999	65.83	662	182	0.33	46634	85.28	712	77	0.14	52162	95.39
613	249	0.46	36248	66.29	663	179	0.33	46813	85.61	713	61	0.11	52223	95.50
614	268	0.49	36516	66.78	664	184	0.34	46997	85.94	714	76	0.14	52299	95.64
615	251	0.46	36767	67.24	665	164	0.30	47161	86.24	715	60	0.11	52359	95.75
616	258	0.47	37025	67.71	666	150	0.27	47311	86.52	716	43	0.08	52402	95.83
617	256	0.47	37281	68.18	667	158	0.29	47469	86.81	717	63	0.12	52465	95.94
618	262	0.48	37543	68.65	668	164	0.30	47633	87.11	718	58	0.11	52523	96.05
619	259	0.47	37802	69.13	669	134	0.25	47767	87.35	719	45	0.08	52568	96.13
620	276	0.50	38078	69.63	670	132	0.24	47899	87.59	720	52	0.10	52620	96.23
621	245	0.45	38323	70.08	671	138	0.25	48037	87.84	721	36	0.07	52656	96.29
622	247	0.45	38570	70.53	672	146	0.27	48183	88.11	722	57	0.10	52713	96.40
623	235	0.43	38805	70.96	673	126	0.23	48309	88.34	723	48	0.09	52761	96.48
624	219	0.40	39024	71.36	674	138	0.25	48447	88.59	724	47	0.09	52808	96.57
625	247	0.45	39271	71.81	675	117	0.21	48564	88.81	725	64	0.12	52872	96.69
626	248	0.45	39519	72.27	676	128	0.23	48692	89.04	726	49	0.09	52921	96.78
627	236	0.43	39755	72.70	677	131	0.24	48823	89.28	727	52	0.10	52973	96.87
628	246	0.45	40001	73.15	678	145	0.27	48968	89.55	728	45	0.08	53018	96.95
629	218	0.40	40219	73.55	679	115	0.21	49083	89.76	729	39	0.07	53057	97.02
630	233	0.43	40452	73.97	680	122	0.22	49205	89.98	730	35	0.06	53092	97.09
631	216	0.39	40668	74.37	681	112	0.20	49317	90.19	731	36	0.07	53128	97.15
632	211	0.39	40879	74.75	682	112	0.20	49429	90.39	732	32	0.06	53160	97.21
633	257	0.47	41136	75.22	683	112	0.20	49541	90.60	733	31	0.06	53191	97.27
634	213	0.39	41349	75.61	684	121	0.22	49662	90.82	734	33	0.06	53224	97.33

**Table 185. Writing 10 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
735	27	0.05	53251	97.38	781	14	0.03	54229	99.17	827	1	0.00	54508	99.68
736	38	0.07	53289	97.45	782	16	0.03	54245	99.20	828	1	0.00	54509	99.68
737	43	0.08	53332	97.53	783	9	0.02	54254	99.21	830	3	0.01	54512	99.69
738	32	0.06	53364	97.59	784	14	0.03	54268	99.24	831	5	0.01	54517	99.69
739	29	0.05	53393	97.64	785	6	0.01	54274	99.25	832	2	0.00	54519	99.70
740	30	0.05	53423	97.69	786	11	0.02	54285	99.27	833	9	0.02	54528	99.71
741	34	0.06	53457	97.76	787	7	0.01	54292	99.28	834	3	0.01	54531	99.72
742	27	0.05	53484	97.81	788	9	0.02	54301	99.30	835	3	0.01	54534	99.73
743	33	0.06	53517	97.87	789	8	0.01	54309	99.31	836	1	0.00	54535	99.73
744	25	0.05	53542	97.91	790	8	0.01	54317	99.33	837	12	0.02	54547	99.75
745	23	0.04	53565	97.95	791	9	0.02	54326	99.35	838	3	0.01	54550	99.75
746	31	0.06	53596	98.01	792	4	0.01	54330	99.35	839	1	0.00	54551	99.76
747	31	0.06	53627	98.07	793	9	0.02	54339	99.37	840	1	0.00	54552	99.76
748	33	0.06	53660	98.13	794	5	0.01	54344	99.38	841	4	0.01	54556	99.77
749	27	0.05	53687	98.18	795	8	0.01	54352	99.39	842	1	0.00	54557	99.77
750	26	0.05	53713	98.22	796	5	0.01	54357	99.40	843	5	0.01	54562	99.78
751	34	0.06	53747	98.29	797	6	0.01	54363	99.41	844	4	0.01	54566	99.78
752	29	0.05	53776	98.34	798	5	0.01	54368	99.42	845	1	0.00	54567	99.79
753	24	0.04	53800	98.38	799	6	0.01	54374	99.43	846	3	0.01	54570	99.79
754	17	0.03	53817	98.41	800	5	0.01	54379	99.44	847	1	0.00	54571	99.79
755	28	0.05	53845	98.47	801	8	0.01	54387	99.46	848	2	0.00	54573	99.80
756	17	0.03	53862	98.50	802	5	0.01	54392	99.47	850	4	0.01	54577	99.80
757	17	0.03	53879	98.53	803	11	0.02	54403	99.49	852	5	0.01	54582	99.81
758	15	0.03	53894	98.56	804	5	0.01	54408	99.50	854	1	0.00	54583	99.82
759	23	0.04	53917	98.60	805	2	0.00	54410	99.50	855	5	0.01	54588	99.82
760	16	0.03	53933	98.63	806	2	0.00	54412	99.50	857	1	0.00	54589	99.83
761	18	0.03	53951	98.66	807	8	0.01	54420	99.52	858	3	0.01	54592	99.83
762	19	0.03	53970	98.69	808	5	0.01	54425	99.53	859	4	0.01	54596	99.84
763	18	0.03	53988	98.73	809	6	0.01	54431	99.54	862	4	0.01	54600	99.85
764	24	0.04	54012	98.77	810	8	0.01	54439	99.55	868	5	0.01	54605	99.86
765	12	0.02	54024	98.79	811	4	0.01	54443	99.56	869	2	0.00	54607	99.86
766	14	0.03	54038	98.82	812	6	0.01	54449	99.57	870	1	0.00	54608	99.86
767	21	0.04	54059	98.86	813	3	0.01	54452	99.58	871	1	0.00	54609	99.86
768	13	0.02	54072	98.88	814	9	0.02	54461	99.59	878	1	0.00	54610	99.86
769	13	0.02	54085	98.90	815	1	0.00	54462	99.59	888	1	0.00	54611	99.87
770	15	0.03	54100	98.93	816	6	0.01	54468	99.61	889	1	0.00	54612	99.87
771	9	0.02	54109	98.95	817	3	0.01	54471	99.61	890	4	0.01	54616	99.88
772	16	0.03	54125	98.98	818	9	0.02	54480	99.63	891	5	0.01	54621	99.88
773	10	0.02	54135	99.00	819	8	0.01	54488	99.64	894	1	0.00	54622	99.89
774	10	0.02	54145	99.01	820	8	0.01	54496	99.66	895	2	0.00	54624	99.89
775	9	0.02	54154	99.03	821	2	0.00	54498	99.66	900	17	0.03	54641	99.92
776	10	0.02	54164	99.05	822	2	0.00	54500	99.66	905	4	0.01	54645	99.93
777	11	0.02	54175	99.07	823	1	0.00	54501	99.67	908	1	0.00	54646	99.93
778	12	0.02	54187	99.09	824	2	0.00	54503	99.67	915	1	0.00	54647	99.93
779	13	0.02	54200	99.11	825	2	0.00	54505	99.67	922	1	0.00	54648	99.93
780	15	0.03	54215	99.14	826	2	0.00	54507	99.68	924	2	0.00	54650	99.94

**Table 185. Writing 10 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq.</b>	<b>%</b>	<b>Cum. Freq.</b>	<b>Cum. %</b>
932	1	0.00	54651	99.94
934	13	0.02	54664	99.96
950	20	0.04	54684	100.00

**Table 186. Mathematics 10 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
370	740	1.35	740	1.35	420	26	0.05	1555	2.83	470	77	0.14	3753	6.83
371	9	0.02	749	1.36	421	21	0.04	1576	2.87	471	69	0.13	3822	6.95
372	12	0.02	761	1.38	422	30	0.05	1606	2.92	472	85	0.15	3907	7.11
373	9	0.02	770	1.40	423	20	0.04	1626	2.96	473	78	0.14	3985	7.25
374	17	0.03	787	1.43	424	28	0.05	1654	3.01	474	77	0.14	4062	7.39
375	7	0.01	794	1.44	425	29	0.05	1683	3.06	475	72	0.13	4134	7.52
376	14	0.03	808	1.47	426	36	0.07	1719	3.13	476	80	0.15	4214	7.67
377	10	0.02	818	1.49	427	22	0.04	1741	3.17	477	78	0.14	4292	7.81
378	13	0.02	831	1.51	428	26	0.05	1767	3.21	478	85	0.15	4377	7.96
379	13	0.02	844	1.54	429	38	0.07	1805	3.28	479	70	0.13	4447	8.09
380	9	0.02	853	1.55	430	30	0.05	1835	3.34	480	100	0.18	4547	8.27
381	8	0.01	861	1.57	431	26	0.05	1861	3.39	481	87	0.16	4634	8.43
382	12	0.02	873	1.59	432	28	0.05	1889	3.44	482	64	0.12	4698	8.55
383	11	0.02	884	1.61	433	32	0.06	1921	3.49	483	92	0.17	4790	8.71
384	13	0.02	897	1.63	434	39	0.07	1960	3.57	484	94	0.17	4884	8.89
385	9	0.02	906	1.65	435	29	0.05	1989	3.62	485	101	0.18	4985	9.07
386	14	0.03	920	1.67	436	34	0.06	2023	3.68	486	111	0.20	5096	9.27
387	20	0.04	940	1.71	437	39	0.07	2062	3.75	487	83	0.15	5179	9.42
388	10	0.02	950	1.73	438	26	0.05	2088	3.80	488	96	0.17	5275	9.60
389	12	0.02	962	1.75	439	32	0.06	2120	3.86	489	110	0.20	5385	9.80
390	11	0.02	973	1.77	440	27	0.05	2147	3.91	490	93	0.17	5478	9.97
391	16	0.03	989	1.80	441	38	0.07	2185	3.97	491	114	0.21	5592	10.17
392	10	0.02	999	1.82	442	39	0.07	2224	4.05	492	114	0.21	5706	10.38
393	15	0.03	1014	1.84	443	34	0.06	2258	4.11	493	124	0.23	5830	10.61
394	16	0.03	1030	1.87	444	37	0.07	2295	4.18	494	103	0.19	5933	10.79
395	15	0.03	1045	1.90	445	42	0.08	2337	4.25	495	108	0.20	6041	10.99
396	21	0.04	1066	1.94	446	32	0.06	2369	4.31	496	104	0.19	6145	11.18
397	9	0.02	1075	1.96	447	43	0.08	2412	4.39	497	129	0.23	6274	11.41
398	18	0.03	1093	1.99	448	44	0.08	2456	4.47	498	115	0.21	6389	11.62
399	13	0.02	1106	2.01	449	44	0.08	2500	4.55	499	142	0.26	6531	11.88
400	20	0.04	1126	2.05	450	47	0.09	2547	4.63	500	120	0.22	6651	12.10
401	17	0.03	1143	2.08	451	43	0.08	2590	4.71	501	118	0.21	6769	12.31
402	17	0.03	1160	2.11	452	49	0.09	2639	4.80	502	123	0.22	6892	12.54
403	14	0.03	1174	2.14	453	56	0.10	2695	4.90	503	134	0.24	7026	12.78
404	20	0.04	1194	2.17	454	44	0.08	2739	4.98	504	122	0.22	7148	13.00
405	24	0.04	1218	2.22	455	48	0.09	2787	5.07	505	144	0.26	7292	13.27
406	18	0.03	1236	2.25	456	53	0.10	2840	5.17	506	147	0.27	7439	13.53
407	18	0.03	1254	2.28	457	65	0.12	2905	5.28	507	139	0.25	7578	13.79
408	19	0.03	1273	2.32	458	57	0.10	2962	5.39	508	138	0.25	7716	14.04
409	20	0.04	1293	2.35	459	51	0.09	3013	5.48	509	168	0.31	7884	14.34
410	22	0.04	1315	2.39	460	75	0.14	3088	5.62	510	157	0.29	8041	14.63
411	19	0.03	1334	2.43	461	57	0.10	3145	5.72	511	174	0.32	8215	14.94
412	26	0.05	1360	2.47	462	56	0.10	3201	5.82	512	143	0.26	8358	15.20
413	25	0.05	1385	2.52	463	62	0.11	3263	5.94	513	153	0.28	8511	15.48
414	26	0.05	1411	2.57	464	58	0.11	3321	6.04	514	146	0.27	8657	15.75
415	23	0.04	1434	2.61	465	74	0.13	3395	6.18	515	152	0.28	8809	16.03
416	25	0.05	1459	2.65	466	66	0.12	3461	6.30	516	147	0.27	8956	16.29
417	28	0.05	1487	2.71	467	72	0.13	3533	6.43	517	179	0.33	9135	16.62
418	22	0.04	1509	2.75	468	69	0.13	3602	6.55	518	145	0.26	9280	16.88
419	20	0.04	1529	2.78	469	74	0.13	3676	6.69	519	163	0.30	9443	17.18

**Table 186. Mathematics 10 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
520	160	0.29	9603	17.47	570	268	0.49	20835	37.90	620	307	0.56	35937	65.38
521	159	0.29	9762	17.76	571	254	0.46	21089	38.37	621	287	0.52	36224	65.90
522	187	0.34	9949	18.10	572	302	0.55	21391	38.91	622	309	0.56	36533	66.46
523	186	0.34	10135	18.44	573	265	0.48	21656	39.40	623	311	0.57	36844	67.03
524	169	0.31	10304	18.75	574	320	0.58	21976	39.98	624	309	0.56	37153	67.59
525	171	0.31	10475	19.06	575	297	0.54	22273	40.52	625	312	0.57	37465	68.16
526	181	0.33	10656	19.39	576	294	0.53	22567	41.05	626	325	0.59	37790	68.75
527	196	0.36	10852	19.74	577	248	0.45	22815	41.51	627	295	0.54	38085	69.28
528	203	0.37	11055	20.11	578	291	0.53	23106	42.03	628	344	0.63	38429	69.91
529	172	0.31	11227	20.42	579	295	0.54	23401	42.57	629	298	0.54	38727	70.45
530	199	0.36	11426	20.79	580	276	0.50	23677	43.07	630	287	0.52	39014	70.97
531	184	0.33	11610	21.12	581	291	0.53	23968	43.60	631	319	0.58	39333	71.55
532	216	0.39	11826	21.51	582	299	0.54	24267	44.15	632	264	0.48	39597	72.04
533	194	0.35	12020	21.87	583	281	0.51	24548	44.66	633	275	0.50	39872	72.54
534	200	0.36	12220	22.23	584	289	0.53	24837	45.18	634	310	0.56	40182	73.10
535	211	0.38	12431	22.61	585	285	0.52	25122	45.70	635	307	0.56	40489	73.66
536	205	0.37	12636	22.99	586	316	0.57	25438	46.28	636	287	0.52	40776	74.18
537	195	0.35	12831	23.34	587	299	0.54	25737	46.82	637	291	0.53	41067	74.71
538	218	0.40	13049	23.74	588	273	0.50	26010	47.32	638	270	0.49	41337	75.20
539	229	0.42	13278	24.16	589	288	0.52	26298	47.84	639	291	0.53	41628	75.73
540	216	0.39	13494	24.55	590	311	0.57	26609	48.41	640	275	0.50	41903	76.23
541	194	0.35	13688	24.90	591	301	0.55	26910	48.95	641	275	0.50	42178	76.73
542	226	0.41	13914	25.31	592	338	0.61	27248	49.57	642	276	0.50	42454	77.23
543	237	0.43	14151	25.74	593	320	0.58	27568	50.15	643	275	0.50	42729	77.73
544	202	0.37	14353	26.11	594	309	0.56	27877	50.71	644	253	0.46	42982	78.19
545	204	0.37	14557	26.48	595	312	0.57	28189	51.28	645	256	0.47	43238	78.66
546	245	0.45	14802	26.93	596	315	0.57	28504	51.85	646	304	0.55	43542	79.21
547	240	0.44	15042	27.36	597	289	0.53	28793	52.38	647	298	0.54	43840	79.75
548	251	0.46	15293	27.82	598	320	0.58	29113	52.96	648	257	0.47	44097	80.22
549	245	0.45	15538	28.27	599	292	0.53	29405	53.49	649	268	0.49	44365	80.71
550	219	0.40	15757	28.67	600	298	0.54	29703	54.04	650	233	0.42	44598	81.13
551	225	0.41	15982	29.07	601	288	0.52	29991	54.56	651	245	0.45	44843	81.58
552	246	0.45	16228	29.52	602	300	0.55	30291	55.11	652	251	0.46	45094	82.04
553	258	0.47	16486	29.99	603	319	0.58	30610	55.69	653	216	0.39	45310	82.43
554	235	0.43	16721	30.42	604	319	0.58	30929	56.27	654	262	0.48	45572	82.90
555	243	0.44	16964	30.86	605	289	0.53	31218	56.79	655	250	0.45	45822	83.36
556	249	0.45	17213	31.31	606	308	0.56	31526	57.35	656	189	0.34	46011	83.70
557	239	0.43	17452	31.75	607	319	0.58	31845	57.93	657	227	0.41	46238	84.12
558	257	0.47	17709	32.22	608	316	0.57	32161	58.51	658	252	0.46	46490	84.57
559	259	0.47	17968	32.69	609	288	0.52	32449	59.03	659	228	0.41	46718	84.99
560	260	0.47	18228	33.16	610	355	0.65	32804	59.68	660	210	0.38	46928	85.37
561	273	0.50	18501	33.66	611	317	0.58	33121	60.25	661	230	0.42	47158	85.79
562	273	0.50	18774	34.15	612	335	0.61	33456	60.86	662	214	0.39	47372	86.18
563	265	0.48	19039	34.64	613	309	0.56	33765	61.43	663	205	0.37	47577	86.55
564	271	0.49	19310	35.13	614	278	0.51	34043	61.93	664	203	0.37	47780	86.92
565	232	0.42	19542	35.55	615	304	0.55	34347	62.48	665	214	0.39	47994	87.31
566	258	0.47	19800	36.02	616	333	0.61	34680	63.09	666	194	0.35	48188	87.66
567	246	0.45	20046	36.47	617	320	0.58	35000	63.67	667	201	0.37	48389	88.03
568	273	0.50	20319	36.96	618	288	0.52	35288	64.20	668	184	0.33	48573	88.36
569	248	0.45	20567	37.42	619	342	0.62	35630	64.82	669	185	0.34	48758	88.70

**Table 186. Mathematics 10 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
670	192	0.35	48950	89.05	720	43	0.08	54225	98.65	770	2	0.00	54915	99.90
671	174	0.32	49124	89.37	721	28	0.05	54253	98.70	771	3	0.01	54918	99.91
672	194	0.35	49318	89.72	722	36	0.07	54289	98.76	772	3	0.01	54921	99.91
673	197	0.36	49515	90.08	723	34	0.06	54323	98.82	773	4	0.01	54925	99.92
674	181	0.33	49696	90.41	724	26	0.05	54349	98.87	774	2	0.00	54927	99.92
675	174	0.32	49870	90.72	725	31	0.06	54380	98.93	775	5	0.01	54932	99.93
676	165	0.30	50035	91.02	726	23	0.04	54403	98.97	778	1	0.00	54933	99.93
677	164	0.30	50199	91.32	727	32	0.06	54435	99.03	779	1	0.00	54934	99.94
678	158	0.29	50357	91.61	728	25	0.05	54460	99.07	780	3	0.01	54937	99.94
679	151	0.27	50508	91.88	729	22	0.04	54482	99.11	781	2	0.00	54939	99.95
680	181	0.33	50689	92.21	730	29	0.05	54511	99.17	782	2	0.00	54941	99.95
681	145	0.26	50834	92.48	731	26	0.05	54537	99.21	783	1	0.00	54942	99.95
682	151	0.27	50985	92.75	732	22	0.04	54559	99.25	784	1	0.00	54943	99.95
683	130	0.24	51115	92.99	733	22	0.04	54581	99.29	785	4	0.01	54947	99.96
684	122	0.22	51237	93.21	734	14	0.03	54595	99.32	786	1	0.00	54948	99.96
685	133	0.24	51370	93.45	735	23	0.04	54618	99.36	787	1	0.00	54949	99.96
686	127	0.23	51497	93.68	736	19	0.03	54637	99.40	788	1	0.00	54950	99.97
687	116	0.21	51613	93.89	737	23	0.04	54660	99.44	789	1	0.00	54951	99.97
688	125	0.23	51738	94.12	738	20	0.04	54680	99.47	790	1	0.00	54952	99.97
689	141	0.26	51879	94.38	739	16	0.03	54696	99.50	791	2	0.00	54954	99.97
690	114	0.21	51993	94.59	740	20	0.04	54716	99.54	795	2	0.00	54956	99.98
691	127	0.23	52120	94.82	741	13	0.02	54729	99.56	797	1	0.00	54957	99.98
692	111	0.20	52231	95.02	742	14	0.03	54743	99.59	798	1	0.00	54958	99.98
693	112	0.20	52343	95.22	743	6	0.01	54749	99.60	799	1	0.00	54959	99.98
694	110	0.20	52453	95.42	744	14	0.03	54763	99.63	800	1	0.00	54960	99.98
695	111	0.20	52564	95.62	745	7	0.01	54770	99.64	803	1	0.00	54961	99.99
696	105	0.19	52669	95.82	746	3	0.01	54773	99.64	806	1	0.00	54962	99.99
697	74	0.13	52743	95.95	747	10	0.02	54783	99.66	807	1	0.00	54963	99.99
698	100	0.18	52843	96.13	748	8	0.01	54791	99.68	812	1	0.00	54964	99.99
699	82	0.15	52925	96.28	749	7	0.01	54798	99.69	821	2	0.00	54966	99.99
700	98	0.18	53023	96.46	750	16	0.03	54814	99.72	824	1	0.00	54967	100.00
701	93	0.17	53116	96.63	751	13	0.02	54827	99.74	829	1	0.00	54968	100.00
702	84	0.15	53200	96.78	752	4	0.01	54831	99.75	877	1	0.00	54969	100.00
703	70	0.13	53270	96.91	753	4	0.01	54835	99.76					
704	94	0.17	53364	97.08	754	6	0.01	54841	99.77					
705	61	0.11	53425	97.19	755	5	0.01	54846	99.78					
706	63	0.11	53488	97.31	756	9	0.02	54855	99.79					
707	68	0.12	53556	97.43	757	12	0.02	54867	99.81					
708	66	0.12	53622	97.55	758	4	0.01	54871	99.82					
709	57	0.10	53679	97.65	759	5	0.01	54876	99.83					
710	69	0.13	53748	97.78	760	7	0.01	54883	99.84					
711	63	0.11	53811	97.89	761	3	0.01	54886	99.85					
712	55	0.10	53866	97.99	762	4	0.01	54890	99.86					
713	40	0.07	53906	98.07	763	2	0.00	54892	99.86					
714	43	0.08	53949	98.14	764	4	0.01	54896	99.87					
715	49	0.09	53998	98.23	765	2	0.00	54898	99.87					
716	50	0.09	54048	98.32	766	4	0.01	54902	99.88					
717	46	0.08	54094	98.41	767	4	0.01	54906	99.89					
718	38	0.07	54132	98.48	768	5	0.01	54911	99.89					
719	50	0.09	54182	98.57	769	2	0.00	54913	99.90					

**Table 187. Science 10 Scale Score Distribution**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	623	1.13	623	1.13	350	33	0.06	1353	2.46	400	82	0.15	3588	6.52
301	9	0.02	632	1.15	351	25	0.05	1378	2.51	401	90	0.16	3678	6.69
302	8	0.01	640	1.16	352	21	0.04	1399	2.54	402	86	0.16	3764	6.84
303	4	0.01	644	1.17	353	28	0.05	1427	2.59	403	73	0.13	3837	6.98
304	7	0.01	651	1.18	354	22	0.04	1449	2.63	404	92	0.17	3929	7.14
305	7	0.01	658	1.20	355	24	0.04	1473	2.68	405	89	0.16	4018	7.31
306	8	0.01	666	1.21	356	34	0.06	1507	2.74	406	75	0.14	4093	7.44
307	7	0.01	673	1.22	357	33	0.06	1540	2.80	407	78	0.14	4171	7.58
308	10	0.02	683	1.24	358	35	0.06	1575	2.86	408	76	0.14	4247	7.72
309	6	0.01	689	1.25	359	39	0.07	1614	2.93	409	86	0.16	4333	7.88
310	19	0.03	708	1.29	360	24	0.04	1638	2.98	410	89	0.16	4422	8.04
311	12	0.02	720	1.31	361	34	0.06	1672	3.04	411	83	0.15	4505	8.19
312	7	0.01	727	1.32	362	34	0.06	1706	3.10	412	83	0.15	4588	8.34
313	8	0.01	735	1.34	363	34	0.06	1740	3.16	413	95	0.17	4683	8.51
314	5	0.01	740	1.35	364	33	0.06	1773	3.22	414	93	0.17	4776	8.68
315	10	0.02	750	1.36	365	39	0.07	1812	3.29	415	102	0.19	4878	8.87
316	9	0.02	759	1.38	366	35	0.06	1847	3.36	416	97	0.18	4975	9.04
317	17	0.03	776	1.41	367	44	0.08	1891	3.44	417	85	0.15	5060	9.20
318	7	0.01	783	1.42	368	36	0.07	1927	3.50	418	82	0.15	5142	9.35
319	9	0.02	792	1.44	369	43	0.08	1970	3.58	419	117	0.21	5259	9.56
320	10	0.02	802	1.46	370	33	0.06	2003	3.64	420	97	0.18	5356	9.74
321	12	0.02	814	1.48	371	50	0.09	2053	3.73	421	114	0.21	5470	9.94
322	7	0.01	821	1.49	372	37	0.07	2090	3.80	422	98	0.18	5568	10.12
323	12	0.02	833	1.51	373	45	0.08	2135	3.88	423	112	0.20	5680	10.33
324	21	0.04	854	1.55	374	45	0.08	2180	3.96	424	112	0.20	5792	10.53
325	18	0.03	872	1.59	375	47	0.09	2227	4.05	425	125	0.23	5917	10.76
326	21	0.04	893	1.62	376	51	0.09	2278	4.14	426	130	0.24	6047	10.99
327	9	0.02	902	1.64	377	36	0.07	2314	4.21	427	106	0.19	6153	11.19
328	11	0.02	913	1.66	378	35	0.06	2349	4.27	428	144	0.26	6297	11.45
329	14	0.03	927	1.69	379	41	0.07	2390	4.35	429	131	0.24	6428	11.69
330	17	0.03	944	1.72	380	55	0.10	2445	4.45	430	103	0.19	6531	11.87
331	11	0.02	955	1.74	381	55	0.10	2500	4.55	431	148	0.27	6679	12.14
332	14	0.03	969	1.76	382	51	0.09	2551	4.64	432	142	0.26	6821	12.40
333	12	0.02	981	1.78	383	62	0.11	2613	4.75	433	102	0.19	6923	12.59
334	12	0.02	993	1.81	384	37	0.07	2650	4.82	434	145	0.26	7068	12.85
335	19	0.03	1012	1.84	385	44	0.08	2694	4.90	435	131	0.24	7199	13.09
336	21	0.04	1033	1.88	386	58	0.11	2752	5.00	436	145	0.26	7344	13.35
337	20	0.04	1053	1.91	387	55	0.10	2807	5.10	437	160	0.29	7504	13.64
338	18	0.03	1071	1.95	388	71	0.13	2878	5.23	438	150	0.27	7654	13.92
339	18	0.03	1089	1.98	389	61	0.11	2939	5.34	439	161	0.29	7815	14.21
340	23	0.04	1112	2.02	390	57	0.10	2996	5.45	440	154	0.28	7969	14.49
341	23	0.04	1135	2.06	391	48	0.09	3044	5.53	441	155	0.28	8124	14.77
342	24	0.04	1159	2.11	392	49	0.09	3093	5.62	442	148	0.27	8272	15.04
343	17	0.03	1176	2.14	393	57	0.10	3150	5.73	443	166	0.30	8438	15.34
344	16	0.03	1192	2.17	394	61	0.11	3211	5.84	444	152	0.28	8590	15.62
345	31	0.06	1223	2.22	395	56	0.10	3267	5.94	445	164	0.30	8754	15.92
346	24	0.04	1247	2.27	396	46	0.08	3313	6.02	446	175	0.32	8929	16.23
347	34	0.06	1281	2.33	397	60	0.11	3373	6.13	447	159	0.29	9088	16.52
348	21	0.04	1302	2.37	398	70	0.13	3443	6.26	448	205	0.37	9293	16.90
349	18	0.03	1320	2.40	399	63	0.11	3506	6.37	449	157	0.29	9450	17.18

**Table 187. Science 10 Scale Score Distribution (Continued)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
450	193	0.35	9643	17.53	500	339	0.62	23136	42.06	550	351	0.64	43128	78.41
451	201	0.37	9844	17.90	501	357	0.65	23493	42.71	551	350	0.64	43478	79.05
452	176	0.32	10020	18.22	502	388	0.71	23881	43.42	552	357	0.65	43835	79.70
453	204	0.37	10224	18.59	503	372	0.68	24253	44.09	553	359	0.65	44194	80.35
454	184	0.33	10408	18.92	504	421	0.77	24674	44.86	554	358	0.65	44552	81.00
455	194	0.35	10602	19.28	505	371	0.67	25045	45.53	555	323	0.59	44875	81.59
456	191	0.35	10793	19.62	506	394	0.72	25439	46.25	556	333	0.61	45208	82.19
457	226	0.41	11019	20.03	507	393	0.71	25832	46.96	557	335	0.61	45543	82.80
458	209	0.38	11228	20.41	508	374	0.68	26206	47.64	558	341	0.62	45884	83.42
459	207	0.38	11435	20.79	509	410	0.75	26616	48.39	559	294	0.53	46178	83.96
460	204	0.37	11639	21.16	510	394	0.72	27010	49.11	560	304	0.55	46482	84.51
461	208	0.38	11847	21.54	511	459	0.83	27469	49.94	561	292	0.53	46774	85.04
462	201	0.37	12048	21.90	512	410	0.75	27879	50.69	562	276	0.50	47050	85.54
463	219	0.40	12267	22.30	513	439	0.80	28318	51.48	563	308	0.56	47358	86.10
464	237	0.43	12504	22.73	514	391	0.71	28709	52.20	564	302	0.55	47660	86.65
465	226	0.41	12730	23.14	515	399	0.73	29108	52.92	565	252	0.46	47912	87.11
466	252	0.46	12982	23.60	516	441	0.80	29549	53.72	566	264	0.48	48176	87.59
467	248	0.45	13230	24.05	517	403	0.73	29952	54.46	567	239	0.43	48415	88.02
468	240	0.44	13470	24.49	518	434	0.79	30386	55.24	568	262	0.48	48677	88.50
469	211	0.38	13681	24.87	519	438	0.80	30824	56.04	569	264	0.48	48941	88.98
470	245	0.45	13926	25.32	520	367	0.67	31191	56.71	570	226	0.41	49167	89.39
471	265	0.48	14191	25.80	521	400	0.73	31591	57.44	571	202	0.37	49369	89.76
472	239	0.43	14430	26.23	522	438	0.80	32029	58.23	572	212	0.39	49581	90.14
473	243	0.44	14673	26.68	523	411	0.75	32440	58.98	573	202	0.37	49783	90.51
474	266	0.48	14939	27.16	524	411	0.75	32851	59.73	574	232	0.42	50015	90.93
475	273	0.50	15212	27.66	525	407	0.74	33258	60.47	575	196	0.36	50211	91.29
476	255	0.46	15467	28.12	526	423	0.77	33681	61.23	576	200	0.36	50411	91.65
477	278	0.51	15745	28.63	527	397	0.72	34078	61.96	577	202	0.37	50613	92.02
478	274	0.50	16019	29.12	528	394	0.72	34472	62.67	578	184	0.33	50797	92.35
479	299	0.54	16318	29.67	529	373	0.68	34845	63.35	579	195	0.35	50992	92.71
480	287	0.52	16605	30.19	530	369	0.67	35214	64.02	580	191	0.35	51183	93.05
481	285	0.52	16890	30.71	531	475	0.86	35689	64.89	581	163	0.30	51346	93.35
482	294	0.53	17184	31.24	532	443	0.81	36132	65.69	582	153	0.28	51499	93.63
483	322	0.59	17506	31.83	533	398	0.72	36530	66.41	583	165	0.30	51664	93.93
484	320	0.58	17826	32.41	534	413	0.75	36943	67.17	584	148	0.27	51812	94.20
485	296	0.54	18122	32.95	535	401	0.73	37344	67.89	585	139	0.25	51951	94.45
486	282	0.51	18404	33.46	536	418	0.76	37762	68.65	586	150	0.27	52101	94.72
487	339	0.62	18743	34.08	537	425	0.77	38187	69.43	587	141	0.26	52242	94.98
488	305	0.55	19048	34.63	538	370	0.67	38557	70.10	588	131	0.24	52373	95.22
489	323	0.59	19371	35.22	539	407	0.74	38964	70.84	589	123	0.22	52496	95.44
490	311	0.57	19682	35.78	540	377	0.69	39341	71.53	590	109	0.20	52605	95.64
491	304	0.55	19986	36.34	541	393	0.71	39734	72.24	591	108	0.20	52713	95.84
492	344	0.63	20330	36.96	542	367	0.67	40101	72.91	592	122	0.22	52835	96.06
493	338	0.61	20668	37.58	543	400	0.73	40501	73.63	593	100	0.18	52935	96.24
494	335	0.61	21003	38.19	544	367	0.67	40868	74.30	594	112	0.20	53047	96.44
495	311	0.57	21314	38.75	545	350	0.64	41218	74.94	595	83	0.15	53130	96.59
496	409	0.74	21723	39.49	546	380	0.69	41598	75.63	596	91	0.17	53221	96.76
497	351	0.64	22074	40.13	547	390	0.71	41988	76.34	597	102	0.19	53323	96.95
498	374	0.68	22448	40.81	548	406	0.74	42394	77.08	598	105	0.19	53428	97.14
499	349	0.63	22797	41.45	549	383	0.70	42777	77.77	599	86	0.16	53514	97.29



**Table 187. Science 10 Scale Score Distribution (Concluded)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
600	75	0.14	53589	97.43	650	2	0.00	54957	99.92
601	73	0.13	53662	97.56	651	1	0.00	54958	99.92
602	64	0.12	53726	97.68	652	1	0.00	54959	99.92
603	82	0.15	53808	97.83	653	3	0.01	54962	99.93
604	71	0.13	53879	97.96	654	7	0.01	54969	99.94
605	62	0.11	53941	98.07	655	3	0.01	54972	99.94
606	60	0.11	54001	98.18	656	2	0.00	54974	99.95
607	60	0.11	54061	98.29	657	2	0.00	54976	99.95
608	42	0.08	54103	98.36	659	4	0.01	54980	99.96
609	64	0.12	54167	98.48	660	2	0.00	54982	99.96
610	51	0.09	54218	98.57	661	1	0.00	54983	99.96
611	53	0.10	54271	98.67	663	1	0.00	54984	99.97
612	49	0.09	54320	98.76	664	2	0.00	54986	99.97
613	40	0.07	54360	98.83	666	1	0.00	54987	99.97
614	48	0.09	54408	98.92	667	1	0.00	54988	99.97
615	30	0.05	54438	98.97	668	3	0.01	54991	99.98
616	34	0.06	54472	99.03	671	1	0.00	54992	99.98
617	33	0.06	54505	99.09	672	2	0.00	54994	99.98
618	29	0.05	54534	99.15	673	2	0.00	54996	99.99
619	27	0.05	54561	99.20	676	1	0.00	54997	99.99
620	26	0.05	54587	99.24	681	3	0.01	55000	99.99
621	26	0.05	54613	99.29	689	1	0.00	55001	100.00
622	29	0.05	54642	99.34	720	1	0.00	55002	100.00
623	19	0.03	54661	99.38	742	1	0.00	55003	100.00
624	31	0.06	54692	99.43					
625	28	0.05	54720	99.49					
626	22	0.04	54742	99.53					
627	17	0.03	54759	99.56					
628	22	0.04	54781	99.60					
629	19	0.03	54800	99.63					
630	16	0.03	54816	99.66					
631	20	0.04	54836	99.70					
632	13	0.02	54849	99.72					
633	7	0.01	54856	99.73					
634	9	0.02	54865	99.75					
635	12	0.02	54877	99.77					
636	9	0.02	54886	99.79					
637	8	0.01	54894	99.80					
638	8	0.01	54902	99.82					
639	7	0.01	54909	99.83					
640	6	0.01	54915	99.84					
641	6	0.01	54921	99.85					
642	5	0.01	54926	99.86					
643	3	0.01	54929	99.87					
644	3	0.01	54932	99.87					
645	4	0.01	54936	99.88					
646	4	0.01	54940	99.89					
647	6	0.01	54946	99.90					
648	6	0.01	54952	99.91					
649	3	0.01	54955	99.91					

**Table 188. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 3**

Name	CS1	SA1_4	SA2	SA3	Total
Mean	555.5	557.1	555.1	595.5	555.5
STD	82.01	94.06	101.5	141.4	82.01
N	56196	56196	56196	56196	56196
CS1	1.000	0.900	0.894	0.759	1.000
SA1_4	0.900	1.000	0.723	0.615	0.900
SA2	0.894	0.723	1.000	0.610	0.894
SA3	0.759	0.615	0.610	1.000	0.759
Total	1.000	0.900	0.894	0.759	1.000

**Table 189. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 4**

Name	CS1	CS4	CS5	CS6	SA1_4	SA2	SA3	Total
Mean	585.6	579.2	584.9	589.4	584.5	581.7	652.1	584.3
STD	80.72	95.70	93.25	90.14	75.54	99.01	182.8	70.31
N	56276	56276	56276	56276	56276	56276	56276	56276
CS1	1.000	0.751	0.733	0.740	0.880	0.847	0.680	0.932
CS4	0.751	1.000	0.678	0.692	0.844	0.754	0.543	0.852
CS5	0.733	0.678	1.000	0.659	0.733	0.679	0.546	0.830
CS6	0.740	0.692	0.659	1.000	0.876	0.680	0.563	0.847
SA1_4	0.880	0.844	0.733	0.876	1.000	0.758	0.593	0.951
SA2	0.847	0.754	0.679	0.680	0.758	1.000	0.536	0.849
SA3	0.680	0.543	0.546	0.563	0.593	0.536	1.000	0.670
Total	0.932	0.852	0.830	0.847	0.951	0.849	0.670	1.000

**Table 190. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 5**

Name	CS1	CS4	CS5	CS6	SA1_4	SA2	SA3	Total
Mean	609.2	612.6	616.8	613.6	612.1	609.9	599.0	610.7
STD	84.63	98.30	98.20	86.18	77.74	89.72	155.8	69.46
N	56707	56707	56707	56707	56707	56707	56707	56707
CS1	1.000	0.718	0.710	0.750	0.837	0.853	0.701	0.911
CS4	0.718	1.000	0.645	0.685	0.818	0.780	0.551	0.834
CS5	0.710	0.645	1.000	0.673	0.712	0.687	0.541	0.830
CS6	0.750	0.685	0.673	1.000	0.892	0.760	0.550	0.876
SA1_4	0.837	0.818	0.712	0.892	1.000	0.764	0.590	0.935
SA2	0.853	0.780	0.687	0.760	0.764	1.000	0.559	0.875
SA3	0.701	0.551	0.541	0.550	0.590	0.559	1.000	0.681
Total	0.911	0.834	0.830	0.876	0.935	0.875	0.681	1.000

**Table 191. Scale Score Correlations by Content Standard and Subcontent Area  
Reading Grade 6**

Name	CS1	CS4	CS5	CS6	SA1_4	SA2	SA3	Total
Mean	622.4	628.5	622.4	621.0	622.8	622.0	651.1	623.7
STD	82.78	98.28	86.54	90.14	83.95	83.50	142.6	70.81
N	56320	56320	56320	56320	56320	56320	56320	56320
CS1	1.000	0.709	0.724	0.771	0.790	0.862	0.757	0.913
CS4	0.709	1.000	0.648	0.675	0.741	0.791	0.581	0.816
CS5	0.724	0.648	1.000	0.695	0.690	0.726	0.581	0.842
CS6	0.771	0.675	0.695	1.000	0.836	0.841	0.600	0.877
SA1_4	0.790	0.741	0.690	0.836	1.000	0.749	0.616	0.867
SA2	0.862	0.791	0.726	0.841	0.749	1.000	0.612	0.923
SA3	0.757	0.581	0.581	0.600	0.616	0.612	1.000	0.722
Total	0.913	0.816	0.842	0.877	0.867	0.923	0.722	1.000

**Table 192. Scale Score Correlations by Content Standard and Subcontent Area,  
Reading Grade 7**

Name	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
Mean	634.2	638.3	635.6	638.7	636.5	619.0	657.1	639.3	635.9
STD	83.74	88.02	90.44	88.33	81.01	126.4	135.1	100.4	70.00
N	56765	56765	56765	56765	56765	56765	56765	56765	56765
CS1	1.000	0.751	0.730	0.752	0.826	0.757	0.762	0.738	0.918
CS4	0.751	1.000	0.685	0.712	0.849	0.665	0.623	0.709	0.865
CS5	0.730	0.685	1.000	0.685	0.710	0.626	0.592	0.653	0.842
CS6	0.752	0.712	0.685	1.000	0.846	0.614	0.602	0.809	0.863
SA1	0.826	0.849	0.710	0.846	1.000	0.637	0.628	0.698	0.911
SA2	0.757	0.665	0.626	0.614	0.637	1.000	0.520	0.589	0.751
SA3	0.762	0.623	0.592	0.602	0.628	0.520	1.000	0.570	0.738
SA4	0.738	0.709	0.653	0.809	0.698	0.589	0.570	1.000	0.810
Total	0.918	0.865	0.842	0.863	0.911	0.751	0.738	0.810	1.000

**Table 193. Scale Score Correlations by Content Standard and Subcontent Area,  
Reading Grade 8**

Name	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
Mean	648.1	647.6	647.5	643.1	647.8	647.2	666.8	619.3	646.7
STD	70.60	77.39	77.53	83.71	79.66	73.99	123.2	129.5	61.75
N	57605	57605	57605	57605	57605	57605	57605	57605	57605
CS1	1.000	0.763	0.748	0.736	0.761	0.905	0.758	0.609	0.926
CS4	0.763	1.000	0.715	0.723	0.805	0.804	0.598	0.680	0.880
CS5	0.748	0.715	1.000	0.683	0.686	0.732	0.585	0.597	0.863
CS6	0.736	0.723	0.683	1.000	0.868	0.692	0.581	0.626	0.852
SA1	0.761	0.805	0.686	0.868	1.000	0.701	0.585	0.565	0.866
SA2	0.905	0.804	0.732	0.692	0.701	1.000	0.587	0.599	0.891
SA3	0.758	0.598	0.585	0.581	0.585	0.587	1.000	0.467	0.719
SA4	0.609	0.680	0.597	0.626	0.565	0.599	0.467	1.000	0.700
Total	0.926	0.880	0.863	0.852	0.866	0.891	0.719	0.700	1.000

**Table 194. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 9**

<b>Name</b>	<b>CS1</b>	<b>CS4</b>	<b>CS5</b>	<b>CS6</b>	<b>SA1</b>	<b>SA2</b>	<b>SA3</b>	<b>SA4</b>	<b>Total</b>
Mean	660.0	656.0	658.8	660.9	664.5	657.9	682.9	661.6	659.5
STD	65.84	76.43	74.06	68.77	95.58	63.41	126.9	82.32	55.05
N	59530	59530	59530	59530	59530	59530	59530	59530	59530
CS1	1.000	0.726	0.711	0.723	0.638	0.909	0.708	0.674	0.909
CS4	0.726	1.000	0.667	0.692	0.661	0.818	0.558	0.669	0.841
CS5	0.711	0.667	1.000	0.667	0.583	0.718	0.571	0.622	0.827
CS6	0.723	0.692	0.667	1.000	0.781	0.728	0.569	0.855	0.855
SA1	0.638	0.661	0.583	0.781	1.000	0.626	0.518	0.567	0.746
SA2	0.909	0.818	0.718	0.728	0.626	1.000	0.581	0.683	0.920
SA3	0.708	0.558	0.571	0.569	0.518	0.581	1.000	0.518	0.694
SA4	0.674	0.669	0.622	0.855	0.567	0.683	0.518	1.000	0.787
Total	0.909	0.841	0.827	0.855	0.746	0.920	0.694	0.787	1.000

**Table 195. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 10**

<b>Name</b>	<b>CS1</b>	<b>CS4</b>	<b>CS5</b>	<b>CS6</b>	<b>SA1</b>	<b>SA2</b>	<b>SA3</b>	<b>SA4</b>	<b>Total</b>
Mean	682.3	682.9	685.2	682.7	683.6	675.6	706.5	684.9	683.3
STD	70.45	71.62	74.22	73.14	67.33	84.99	122.7	115.7	57.76
N	54697	54697	54697	54697	54697	54697	54697	54697	54697
CS1	1.000	0.767	0.715	0.728	0.822	0.769	0.710	0.664	0.904
CS4	0.767	1.000	0.689	0.719	0.841	0.841	0.570	0.597	0.883
CS5	0.715	0.689	1.000	0.672	0.691	0.659	0.581	0.581	0.836
CS6	0.728	0.719	0.672	1.000	0.841	0.670	0.563	0.738	0.849
SA1	0.822	0.841	0.691	0.841	1.000	0.714	0.573	0.611	0.901
SA2	0.769	0.841	0.659	0.670	0.714	1.000	0.541	0.574	0.829
SA3	0.710	0.570	0.581	0.563	0.573	0.541	1.000	0.482	0.689
SA4	0.664	0.597	0.581	0.738	0.611	0.574	0.482	1.000	0.713
Total	0.904	0.883	0.836	0.849	0.901	0.829	0.689	0.713	1.000

**Table 196. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 3**

Name	CS2	CS3	SA5	SA7	SA8	Total
Mean	469.2	474.7	470.5	482.9	490.9	468.6
STD	56.03	65.58	58.89	86.67	97.67	50.12
N	56258	56258	56258	56258	56258	56258
CS2	1.000	0.695	0.945	0.617	0.545	0.921
CS3	0.695	1.000	0.666	0.840	0.782	0.883
SA5	0.945	0.666	1.000	0.557	0.519	0.877
SA7	0.617	0.840	0.557	1.000	0.510	0.779
SA8	0.545	0.782	0.519	0.510	1.000	0.717
Total	0.921	0.883	0.877	0.779	0.717	1.000

**Table 197. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 4**

Name	CS2	CS3	SA5	SA6	SA7	SA8	Total
Mean	484.1	488.5	487.0	494.1	493.1	505.2	482.8
STD	56.31	65.89	64.55	87.76	83.52	111.2	51.75
N	56279	56279	56279	56279	56279	56279	56279
CS2	1.000	0.698	0.888	0.767	0.641	0.546	0.940
CS3	0.698	1.000	0.640	0.468	0.889	0.743	0.872
SA5	0.888	0.640	1.000	0.521	0.585	0.512	0.844
SA6	0.767	0.468	0.521	1.000	0.410	0.373	0.688
SA7	0.641	0.889	0.585	0.410	1.000	0.513	0.800
SA8	0.546	0.743	0.512	0.373	0.513	1.000	0.680
Total	0.940	0.872	0.844	0.688	0.800	0.680	1.000

**Table 198. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 5**

Name	CS2	CS3	SA5	SA6	SA7	SA8	Total
Mean	508.0	509.8	508.9	530.5	512.1	515.3	506.7
STD	60.54	63.58	65.90	112.9	73.22	93.07	55.15
N	56704	56704	56704	56704	56704	56704	56704
CS2	1.000	0.734	0.923	0.738	0.710	0.626	0.937
CS3	0.734	1.000	0.696	0.474	0.862	0.861	0.913
SA5	0.923	0.696	1.000	0.512	0.651	0.597	0.873
SA6	0.738	0.474	0.512	1.000	0.414	0.403	0.658
SA7	0.710	0.862	0.651	0.414	1.000	0.617	0.837
SA8	0.626	0.861	0.597	0.403	0.617	1.000	0.788
Total	0.937	0.913	0.873	0.658	0.837	0.788	1.000

**Table 199. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 6**

<b>Name</b>	<b>CS2</b>	<b>CS3</b>	<b>SA5</b>	<b>SA6</b>	<b>SA7</b>	<b>SA8</b>	<b>Total</b>
Mean	528.5	529.7	529.7	539.4	531.2	532.6	526.8
STD	69.77	71.85	80.03	104.0	83.37	93.80	62.88
N	56380	56380	56380	56380	56380	56380	56380
CS2	1.000	0.734	0.890	0.701	0.707	0.701	0.916
CS3	0.734	1.000	0.652	0.452	0.908	0.823	0.934
SA5	0.890	0.652	1.000	0.494	0.610	0.594	0.813
SA6	0.701	0.452	0.494	1.000	0.400	0.402	0.602
SA7	0.707	0.908	0.610	0.400	1.000	0.658	0.877
SA8	0.701	0.823	0.594	0.402	0.658	1.000	0.817
Total	0.916	0.934	0.813	0.602	0.877	0.817	1.000

**Table 200. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 7**

<b>Name</b>	<b>CS2</b>	<b>CS3</b>	<b>SA5</b>	<b>SA6</b>	<b>SA7</b>	<b>SA8</b>	<b>Total</b>
Mean	559.5	559.0	560.8	573.2	561.7	563.5	556.5
STD	78.29	80.78	88.85	105.0	93.85	102.8	71.12
N	56769	56769	56769	56769	56769	56769	56769
CS2	1.000	0.744	0.906	0.726	0.692	0.717	0.925
CS3	0.744	1.000	0.671	0.515	0.913	0.851	0.933
SA5	0.906	0.671	1.000	0.544	0.618	0.610	0.836
SA6	0.726	0.515	0.544	1.000	0.450	0.440	0.656
SA7	0.692	0.913	0.618	0.450	1.000	0.684	0.860
SA8	0.717	0.851	0.610	0.440	0.684	1.000	0.843
Total	0.925	0.933	0.836	0.656	0.860	0.843	1.000

**Table 201. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 8**

<b>Name</b>	<b>CS2</b>	<b>CS3</b>	<b>SA5</b>	<b>SA6</b>	<b>SA7</b>	<b>SA8</b>	<b>Total</b>
Mean	560.2	560.0	563.3	577.3	560.5	571.3	557.6
STD	81.08	84.98	94.04	119.5	100.6	116.9	74.06
N	57633	57633	57633	57633	57633	57633	57633
CS2	1.000	0.758	0.887	0.706	0.700	0.684	0.939
CS3	0.758	1.000	0.669	0.501	0.916	0.820	0.925
SA5	0.887	0.669	1.000	0.518	0.619	0.574	0.831
SA6	0.706	0.501	0.518	1.000	0.440	0.405	0.644
SA7	0.700	0.916	0.619	0.440	1.000	0.644	0.852
SA8	0.684	0.820	0.574	0.405	0.644	1.000	0.797
Total	0.939	0.925	0.831	0.644	0.852	0.797	1.000

**Table 202. Scale Score Correlations by Content Standard and Subcontent Area,  
Writing Grade 9**

<b>Name</b>	<b>CS2</b>	<b>CS3</b>	<b>SA5</b>	<b>SA6</b>	<b>SA7</b>	<b>SA8</b>	<b>Total</b>
Mean	566.0	565.6	569.2	579.8	565.8	568.1	563.5
STD	85.33	87.24	97.35	124.1	108.6	106.2	77.70
N	59523	59523	59523	59523	59523	59523	59523
CS2	1.000	0.768	0.898	0.794	0.690	0.713	0.936
CS3	0.768	1.000	0.693	0.571	0.895	0.897	0.934
SA5	0.898	0.693	1.000	0.573	0.622	0.642	0.844
SA6	0.794	0.571	0.573	1.000	0.470	0.493	0.719
SA7	0.690	0.895	0.622	0.470	1.000	0.704	0.840
SA8	0.713	0.897	0.642	0.493	0.704	1.000	0.852
Total	0.936	0.934	0.844	0.719	0.840	0.852	1.000

**Table 203. Scale Score Correlations by Content Standard and Subcontent Area,  
Writing Grade 10**

<b>Name</b>	<b>CS2</b>	<b>CS3</b>	<b>SA5</b>	<b>SA6</b>	<b>SA7</b>	<b>SA8</b>	<b>Total</b>
Mean	582.6	581.5	585.6	594.3	581.7	582.4	579.9
STD	90.15	92.44	104.9	123.2	104.3	134.1	82.08
N	54684	54684	54684	54684	54684	54684	54684
CS2	1.000	0.755	0.889	0.837	0.703	0.612	0.930
CS3	0.755	1.000	0.675	0.602	0.940	0.826	0.933
SA5	0.889	0.675	1.000	0.595	0.634	0.556	0.829
SA6	0.837	0.602	0.595	1.000	0.526	0.470	0.760
SA7	0.703	0.940	0.634	0.526	1.000	0.665	0.873
SA8	0.612	0.826	0.556	0.470	0.665	1.000	0.768
Total	0.930	0.933	0.829	0.760	0.873	0.768	1.000

**Table 204. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 3**

Name	CS1	CS2_3	CS4_5	CS6	Total
Mean	468.5	470.8	471.9	463.3	456.6
STD	120.9	115.8	113.6	110.6	85.75
N	57914	57914	57914	57914	57914
CS1	1.000	0.642	0.612	0.632	0.826
CS2_3	0.642	1.000	0.643	0.634	0.850
CS4_5	0.612	0.643	1.000	0.614	0.837
CS6	0.632	0.634	0.614	1.000	0.844
Total	0.826	0.850	0.837	0.844	1.000

**Table 205. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 4**

Name	CS1	CS2	CS3	CS4_5	CS6	SA1	SA2	SA3	Total
Mean	498.8	505.4	501.9	495.7	524.1	497.8	507.8	515.5	491.5
STD	99.67	111.8	111.0	92.76	135.6	98.36	116.3	133.7	78.38
N	56644	56644	56644	56644	56644	56644	56644	56644	56644
CS1	1.000	0.695	0.667	0.732	0.630	0.942	0.678	0.624	0.877
CS2	0.695	1.000	0.626	0.690	0.615	0.704	0.971	0.576	0.835
CS3	0.667	0.626	1.000	0.682	0.582	0.675	0.614	0.569	0.814
CS4_5	0.732	0.690	0.682	1.000	0.635	0.742	0.676	0.813	0.897
CS6	0.630	0.615	0.582	0.635	1.000	0.708	0.606	0.521	0.772
SA1	0.942	0.704	0.675	0.742	0.708	1.000	0.688	0.626	0.888
SA2	0.678	0.971	0.614	0.676	0.606	0.688	1.000	0.561	0.817
SA3	0.624	0.576	0.569	0.813	0.521	0.626	0.561	1.000	0.744
Total	0.877	0.835	0.814	0.897	0.772	0.888	0.817	0.744	1.000

**Table 206. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 5**

Name	CS1	CS2	CS3	CS4_5	CS6	SA1	SA2	SA3	Total
Mean	525.2	524.3	525.9	523.0	537.3	524.2	530.0	533.9	519.4
STD	100.4	102.3	97.43	100.3	117.9	97.71	115.2	112.6	78.85
N	56736	56736	56736	56736	56736	56736	56736	56736	56736
CS1	1.000	0.735	0.727	0.719	0.690	0.921	0.694	0.688	0.885
CS2	0.735	1.000	0.724	0.710	0.694	0.749	0.932	0.709	0.882
CS3	0.727	0.724	1.000	0.722	0.673	0.734	0.687	0.904	0.874
CS4_5	0.719	0.710	0.722	1.000	0.658	0.724	0.671	0.681	0.865
CS6	0.690	0.694	0.673	0.658	1.000	0.721	0.658	0.637	0.823
SA1	0.921	0.749	0.734	0.724	0.721	1.000	0.694	0.692	0.884
SA2	0.694	0.932	0.687	0.671	0.658	0.694	1.000	0.655	0.832
SA3	0.688	0.709	0.904	0.681	0.637	0.692	0.655	1.000	0.825
Total	0.885	0.882	0.874	0.865	0.823	0.884	0.832	0.825	1.000



**Table 207. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 6**

Name	CS1	CS2	CS3	CS4_5	CS6	SA1	SA2	SA3	Total
Mean	536.6	544.6	540.3	539.9	548.4	538.2	547.2	539.7	536.9
STD	97.09	97.60	96.43	95.69	117.5	91.81	101.9	109.3	77.00
N	56452	56452	56452	56452	56452	56452	56452	56452	56452
CS1	1.000	0.707	0.730	0.743	0.692	0.933	0.684	0.712	0.888
CS2	0.707	1.000	0.717	0.711	0.656	0.717	0.958	0.680	0.847
CS3	0.730	0.717	1.000	0.738	0.674	0.742	0.694	0.708	0.876
CS4_5	0.743	0.711	0.738	1.000	0.690	0.758	0.684	0.945	0.895
CS6	0.692	0.656	0.674	0.690	1.000	0.784	0.633	0.661	0.818
SA1	0.933	0.717	0.742	0.758	0.784	1.000	0.694	0.728	0.901
SA2	0.684	0.958	0.694	0.684	0.633	0.694	1.000	0.655	0.817
SA3	0.712	0.680	0.708	0.945	0.661	0.728	0.655	1.000	0.857
Total	0.888	0.847	0.876	0.895	0.818	0.901	0.817	0.857	1.000

**Table 208. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 7**

Name	CS1_6	CS2	CS3	CS4_5	SA1	SA2	Total
Mean	557.9	562.4	551.7	552.5	563.1	541.9	556.9
STD	82.79	92.47	89.44	88.35	122.3	112.7	70.86
N	56847	56847	56847	56847	56847	56847	56847
CS1_6	1.000	0.738	0.749	0.764	0.858	0.667	0.916
CS2	0.738	1.000	0.706	0.710	0.651	0.618	0.861
CS3	0.749	0.706	1.000	0.729	0.663	0.637	0.865
CS4_5	0.764	0.710	0.729	1.000	0.670	0.849	0.886
SA1	0.858	0.651	0.663	0.670	1.000	0.591	0.804
SA2	0.667	0.618	0.637	0.849	0.591	1.000	0.772
Total	0.916	0.861	0.865	0.886	0.804	0.772	1.000

**Table 209. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 8**

Name	CS1_6	CS2	CS3	CS4_5	SA1	SA2	SA3	Total
Mean	557.9	564.3	563.5	563.0	563.1	557.8	554.7	565.6
STD	87.46	78.05	82.63	79.15	81.40	89.01	93.90	66.13
N	57620	57620	57620	57620	57620	57620	57620	57620
CS1_6	1.000	0.721	0.729	0.740	0.676	0.831	0.658	0.858
CS2	0.721	1.000	0.744	0.756	0.931	0.723	0.667	0.892
CS3	0.729	0.744	1.000	0.754	0.702	0.736	0.668	0.890
CS4_5	0.740	0.756	0.754	1.000	0.715	0.780	0.859	0.904
SA1	0.676	0.931	0.702	0.715	1.000	0.678	0.636	0.839
SA2	0.831	0.723	0.736	0.780	0.678	1.000	0.657	0.852
SA3	0.658	0.667	0.668	0.859	0.636	0.657	1.000	0.795
Total	0.858	0.892	0.890	0.904	0.839	0.852	0.795	1.000

**Table 210. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 9**

<b>Name</b>	<b>CS1_6</b>	<b>CS2</b>	<b>CS3</b>	<b>CS4_5</b>	<b>SA1</b>	<b>SA2</b>	<b>Total</b>
Mean	558.0	567.2	566.4	564.7	566.4	563.3	569.8
STD	101.3	82.35	84.22	90.11	84.82	92.53	73.88
N	59825	59825	59825	59825	59825	59825	59825
CS1_6	1.000	0.679	0.672	0.647	0.669	0.705	0.776
CS2	0.679	1.000	0.795	0.754	0.950	0.738	0.930
CS3	0.672	0.795	1.000	0.747	0.827	0.794	0.910
CS4_5	0.647	0.754	0.747	1.000	0.748	0.807	0.878
SA1	0.669	0.950	0.827	0.748	1.000	0.729	0.921
SA2	0.705	0.738	0.794	0.807	0.729	1.000	0.853
Total	0.776	0.930	0.910	0.878	0.921	0.853	1.000

**Table 211. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 10**

<b>Name</b>	<b>CS1_6</b>	<b>CS2</b>	<b>CS3</b>	<b>CS4_5</b>	<b>SA1</b>	<b>SA2</b>	<b>Total</b>
Mean	580.9	582.3	584.8	578.6	586.6	573.1	586.1
STD	92.41	84.55	82.30	88.25	86.06	118.2	73.09
N	54969	54969	54969	54969	54969	54969	54969
CS1_6	1.000	0.719	0.698	0.667	0.698	0.514	0.831
CS2	0.719	1.000	0.777	0.743	0.896	0.550	0.926
CS3	0.698	0.777	1.000	0.722	0.827	0.705	0.898
CS4_5	0.667	0.743	0.722	1.000	0.726	0.512	0.857
SA1	0.698	0.896	0.827	0.726	1.000	0.542	0.899
SA2	0.514	0.550	0.705	0.512	0.542	1.000	0.632
Total	0.831	0.926	0.898	0.857	0.899	0.632	1.000

**Table 212. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 5**

Name	CS1_6	CS2_5	CS3_5	CS4_5	SA1	SA2	Total
Mean	554.8	556.8	563.2	557.3	562.2	554.4	553.3
STD	64.34	75.07	81.59	75.04	78.23	75.49	57.73
N	56737	56737	56737	56737	56737	56737	56737
CS1_6	1.000	0.715	0.648	0.711	0.900	0.906	0.939
CS2_5	0.715	1.000	0.589	0.665	0.646	0.659	0.831
CS3_5	0.648	0.589	1.000	0.622	0.589	0.589	0.771
CS4_5	0.711	0.665	0.622	1.000	0.643	0.652	0.848
SA1	0.900	0.646	0.589	0.643	1.000	0.691	0.850
SA2	0.906	0.659	0.589	0.652	0.691	1.000	0.857
Total	0.939	0.831	0.771	0.848	0.850	0.857	1.000

**Table 213. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 8**

Name	CS1_6	CS2_5	CS3_5	CS4_5	SA1	SA2	SA3	SA4	SA5	Total
Mean	503.4	491.5	501.8	502.7	502.9	508.8	493.6	466.2	502.7	502.8
STD	65.15	85.34	73.44	71.78	77.41	77.66	98.62	117.3	76.82	61.47
N	57631	57631	57631	57631	57631	57631	57631	57631	57631	57631
CS1_6	1.000	0.698	0.758	0.784	0.904	0.899	0.638	0.539	0.753	0.963
CS2_5	0.698	1.000	0.629	0.646	0.636	0.616	0.895	0.669	0.619	0.777
CS3_5	0.758	0.629	1.000	0.709	0.686	0.672	0.576	0.486	0.678	0.846
CS4_5	0.784	0.646	0.709	1.000	0.708	0.695	0.596	0.497	0.950	0.876
SA1	0.904	0.636	0.686	0.708	1.000	0.707	0.586	0.488	0.682	0.868
SA2	0.899	0.616	0.672	0.695	0.707	1.000	0.561	0.479	0.667	0.859
SA3	0.638	0.895	0.576	0.596	0.586	0.561	1.000	0.448	0.571	0.712
SA4	0.539	0.669	0.486	0.497	0.488	0.479	0.448	1.000	0.479	0.599
SA5	0.753	0.619	0.678	0.950	0.682	0.667	0.571	0.479	1.000	0.838
Total	0.963	0.777	0.846	0.876	0.868	0.859	0.712	0.599	0.838	1.000

**Table 214. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 10**

Name	CS1_6	CS2_5	CS3_5	CS4_5	SA1	SA2	SA3	SA4	SA5	Total
Mean	503.9	500.1	500.1	503.6	507.3	504.6	493.5	503.2	507.3	502.9
STD	66.77	76.15	73.15	73.94	72.39	79.23	93.72	103.0	87.89	61.46
N	55003	55003	55003	55003	55003	55003	55003	55003	55003	55003
CS1_6	1.000	0.766	0.760	0.745	0.934	0.908	0.631	0.647	0.682	0.940
CS2_5	0.766	1.000	0.714	0.722	0.718	0.695	0.808	0.821	0.663	0.870
CS3_5	0.760	0.714	1.000	0.725	0.711	0.689	0.589	0.613	0.666	0.862
CS4_5	0.745	0.722	0.725	1.000	0.693	0.677	0.603	0.606	0.913	0.869
SA1	0.934	0.718	0.711	0.693	1.000	0.738	0.594	0.614	0.633	0.875
SA2	0.908	0.695	0.689	0.677	0.738	1.000	0.573	0.587	0.622	0.853
SA3	0.631	0.808	0.589	0.603	0.594	0.573	1.000	0.561	0.557	0.720
SA4	0.647	0.821	0.613	0.606	0.614	0.587	0.561	1.000	0.557	0.738
SA5	0.682	0.663	0.666	0.913	0.633	0.622	0.557	0.557	1.000	0.796
Total	0.940	0.870	0.862	0.869	0.875	0.853	0.720	0.738	0.796	1.000

**Table 215. Scale Score Correlations by Content Standard and Subcontent Area,  
Spanish Reading Grade 3**

<b>Name</b>	<b>CS1</b>	<b>SA1_4</b>	<b>SA2</b>	<b>SA3</b>	<b>Total</b>
Mean	518.9	518.4	518.3	518.1	518.9
STD	45.86	55.84	61.88	70.35	45.86
N	1572	1572	1572	1572	1572
CS1	1.000	0.914	0.817	0.771	1.000
SA1_4	0.914	1.000	0.649	0.631	0.914
SA2	0.817	0.649	1.000	0.556	0.817
SA3	0.771	0.631	0.556	1.000	0.771
Total	1.000	0.914	0.817	0.771	1.000

**Table 216. Scale Score Correlations by Content Standard and Subcontent Area,  
Spanish Reading Grade 4**

<b>Name</b>	<b>CS1</b>	<b>CS4</b>	<b>CS5</b>	<b>CS6</b>	<b>SA1_4</b>	<b>SA2</b>	<b>SA3</b>	<b>Total</b>
Mean	523.5	512.7	523.2	516.2	519.7	521.2	536.6	524.0
STD	52.04	65.26	72.05	50.17	42.31	58.74	85.62	39.73
N	264	264	264	264	264	264	264	264
CS1	1.000	0.604	0.632	0.633	0.772	0.835	0.707	0.885
CS4	0.604	1.000	0.558	0.540	0.769	0.653	0.541	0.763
CS5	0.632	0.558	1.000	0.545	0.656	0.618	0.510	0.796
CS6	0.633	0.540	0.545	1.000	0.779	0.601	0.496	0.756
SA1_4	0.772	0.769	0.656	0.779	1.000	0.666	0.589	0.894
SA2	0.835	0.653	0.618	0.601	0.666	1.000	0.614	0.847
SA3	0.707	0.541	0.510	0.496	0.589	0.614	1.000	0.733
Total	0.885	0.763	0.796	0.756	0.894	0.847	0.733	1.000

**Table 217. Scale Score Correlations by Content Standard and Subcontent Area,  
Spanish Writing Grade 3**

<b>Name</b>	<b>CS2</b>	<b>CS3</b>	<b>SA5</b>	<b>SA7</b>	<b>SA8</b>	<b>Total</b>
Mean	507.0	509.1	519.8	514.8	515.7	505.1
STD	76.13	76.58	96.57	90.49	115.3	67.77
N	1578	1578	1578	1578	1578	1578
CS2	1.000	0.743	0.851	0.648	0.595	0.923
CS3	0.743	1.000	0.604	0.902	0.809	0.930
SA5	0.851	0.604	1.000	0.487	0.470	0.769
SA7	0.648	0.902	0.487	1.000	0.583	0.831
SA8	0.595	0.809	0.470	0.583	1.000	0.755
Total	0.923	0.930	0.769	0.831	0.755	1.000

**Table 218. WR Scale Score Correlations by Content Standard and Subcontent Area,  
Spanish Writing Grade 4**

<b>Name</b>	<b>CS2</b>	<b>CS3</b>	<b>SA5</b>	<b>SA6</b>	<b>SA7</b>	<b>SA8</b>	<b>Total</b>
Mean	508.0	513.7	507.1	513.2	514.3	496.0	511.6
STD	46.33	41.29	53.35	79.95	56.60	83.32	38.93
N	264	264	264	264	264	264	264
CS2	1.000	0.670	0.868	0.735	0.528	0.473	0.875
CS3	0.670	1.000	0.585	0.506	0.886	0.606	0.934
SA5	0.868	0.585	1.000	0.467	0.497	0.468	0.770
SA6	0.735	0.506	0.467	1.000	0.331	0.330	0.638
SA7	0.528	0.886	0.497	0.331	1.000	0.404	0.792
SA8	0.473	0.606	0.468	0.330	0.404	1.000	0.607
Total	0.875	0.934	0.770	0.638	0.792	0.607	1.000

**Table 219. Cronbach Alpha Reliability Coefficients for Content Standards**

Content Area	Grade	Content Standard						Total Alpha
		1 Alpha	2 Alpha	3 Alpha	4 Alpha	5 Alpha	6 Alpha	
Reading	3	0.88						0.88
Reading	4	0.85			0.71	0.77	0.73	0.93
Reading	5	0.82			0.78	0.75	0.76	0.93
Reading	6	0.80			0.81	0.66	0.76	0.93
Reading	7	0.80			0.78	0.73	0.76	0.93
Reading	8	0.80			0.75	0.72	0.73	0.93
Reading	9	0.83			0.71	0.73	0.73	0.93
Reading	10	0.81			0.79	0.75	0.71	0.93
Spanish Reading	3	0.87						0.87
Spanish Reading	4	0.84			0.72	0.64	0.54	0.92
Writing	3		0.80	0.87				0.91
Writing	4		0.84	0.87				0.92
Writing	5		0.83	0.85				0.91
Writing	6		0.82	0.85				0.91
Writing	7		0.85	0.84				0.91
Writing	8		0.85	0.84				0.91
Writing	9		0.86	0.85				0.92
Writing	10		0.85	0.87				0.92
Spanish Writing	3		0.81	0.85				0.90
Spanish Writing	4		0.73	0.81				0.86
Mathematics	3	0.62	0.73		0.74		0.63	0.90
Mathematics	4	0.75	0.74	0.71	0.78		0.77	0.94
Mathematics	5	0.78	0.77	0.76	0.76		0.79	0.94
Mathematics	6	0.8	0.68	0.73	0.81		0.73	0.94
Mathematics	7	0.82	0.74	0.71	0.80			0.93
Mathematics	8	0.79	0.77	0.77	0.77			0.93
Mathematics	9	0.76	0.79	0.76	0.72			0.93
Mathematics	10	0.71	0.85	0.73	0.71			0.93
Science	5	0.86	0.63	0.67	0.71			0.92
Science	8	0.87	0.69	0.63	0.71			0.92
Science	10	0.87	0.79	0.74	0.75			0.94

**Table 220. Cronbach Alpha Reliability Coefficients for Subcontent Areas**

Content Area	Grade	Subcontent Area							
		1 Alpha	2 Alpha	3 Alpha	4 Alpha	5 Alpha	6 Alpha	7 Alpha	8 Alpha
Reading	3	0.73	0.70	0.76					
Reading	4	0.85	0.77	0.71					
Reading	5	0.85	0.81	0.62					
Reading	6	0.80	0.84	0.72					
Reading	7	0.83	0.64	0.69	0.69				
Reading	8	0.82	0.76	0.65	0.54				
Reading	9	0.68	0.83	0.63	0.66				
Reading	10	0.82	0.78	0.65	0.55				
Spanish Reading	3	0.79	0.64	0.62					
Spanish Reading	4	0.81	0.76	0.60					
Writing	3					0.82		0.74	0.79
Writing	4					0.74	0.73	0.82	0.69
Writing	5					0.75	0.70	0.76	0.78
Writing	6					0.68	0.71	0.82	0.71
Writing	7					0.72	0.70	0.76	0.80
Writing	8					0.72	0.72	0.74	0.77
Writing	9					0.75	0.80	0.73	0.78
Writing	10					0.73	0.81	0.82	0.66
Spanish Writing	3					0.83		0.79	0.69
Spanish Writing	4					0.59	0.62	0.75	0.68
Mathematics	3								
Mathematics	4	0.76	0.72	0.60					
Mathematics	5	0.74	0.71	0.73					
Mathematics	6	0.80	0.66	0.76					
Mathematics	7	0.68	0.63						
Mathematics	8	0.61	0.76	0.52					
Mathematics	9	0.76	0.73						
Mathematics	10	0.75	0.42						
Science	5	0.79	0.71						
Science	8	0.74	0.76	0.55	0.51	0.63			
Science	10	0.78	0.76	0.60	0.68	0.69			

**Table 221. Subgroup Reliability for the CSAP Mathematics Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
3	No Disability	52109	464.31	82.11	150	700	150	700	0.891	27.11
	Disability	5792	387.24	86.55	150	700	150	700	0.905	26.71
	No Accommodation	46653	472.30	80.08	150	700	150	700	0.884	27.31
	Accommodation	11261	391.54	77.41	150	700	150	700	0.888	25.94
	Am. Indian/AK Nat.	672	428.11	85.90	150	700	150	700	0.905	26.48
	Asian/Pac. Isl.	2074	486.55	86.23	150	700	150	700	0.894	28.12
	Black	3538	414.28	87.23	150	700	150	700	0.910	26.16
	Hispanic	17284	416.35	79.81	150	700	150	700	0.894	26.04
	White	34341	479.96	78.73	150	700	150	700	0.878	27.47
	Free Lunch Elig.	18563	413.87	80.29	150	700	150	700	0.896	25.92
	Reduced Lunch Elig.	4282	444.31	78.23	150	700	150	700	0.886	26.40
	Not FRL Elig.	35034	480.73	80.10	150	700	150	700	0.883	27.43
	Female	28388	456.30	85.74	150	700	150	700	0.902	26.88
	Male	29516	456.87	85.76	150	700	150	700	0.903	26.68
	Lang. Prof. NA	47111	468.21	82.44	150	700	150	700	0.893	26.97
	Lang. Prof. NEP	3083	350.01	73.92	150	700	150	661	0.868	26.84
	Lang. Prof. LEP	5704	414.35	67.35	150	700	150	700	0.857	25.46
	Lang. Prof. FEP	2011	467.85	74.32	150	700	178	700	0.864	27.41
	Not Mig. or Immig.	55782	458.78	85.02	150	700	150	700	0.901	26.80
	Mig. or Immig.	2119	399.16	84.68	150	700	150	700	0.899	26.93
4	No Disability	50851	499.79	73.26	180	780	180	780	0.932	19.11
	Disability	5745	418.27	84.05	180	780	180	739	0.944	19.95
	No Accommodation	46138	506.50	70.76	180	780	180	780	0.927	19.17
	Accommodation	10506	425.58	76.17	180	780	180	741	0.935	19.49
	Am. Indian/AK Nat.	638	464.23	75.29	180	780	202	780	0.937	18.90
	Asian/Pac. Isl.	2061	524.09	73.39	180	780	180	780	0.930	19.37
	Black	3241	451.03	80.49	180	780	180	728	0.944	19.07
	Hispanic	16327	454.49	74.63	180	780	180	780	0.937	18.78
	White	34373	511.44	71.82	180	780	180	780	0.929	19.08
	Free Lunch Elig.	17294	451.20	75.14	180	780	180	780	0.937	18.82
	Reduced Lunch Elig.	4221	478.65	70.62	180	780	180	780	0.931	18.59
	Not FRL Elig.	35045	512.96	72.46	180	780	180	780	0.931	19.08
	Female	27811	489.54	76.97	180	780	180	780	0.939	18.99
	Male	28826	493.40	79.67	180	780	180	780	0.944	18.92
	Lang. Prof. NA	46456	501.04	75.33	180	780	180	780	0.937	18.96
	Lang. Prof. NEP	1821	381.19	77.34	180	780	180	672	0.926	20.97
	Lang. Prof. LEP	5448	443.91	63.85	180	780	180	734	0.917	18.43
	Lang. Prof. FEP	2909	497.32	65.21	180	780	182	780	0.915	19.02
	Not Mig. or Immig.	55176	492.94	77.72	180	780	180	780	0.940	18.97
	Mig. or Immig.	1419	435.98	84.11	180	780	180	762	0.944	19.89



**Table 221. Subgroup Reliability for the CSAP Mathematics Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
5	No Disability	50864	528.36	73.51	220	800	220	800	0.938	18.25
	Disability	5838	440.92	80.39	220	800	220	779	0.939	19.79
	No Accommodation	46507	533.71	71.60	220	800	220	800	0.935	18.25
	Accommodation	10229	454.12	77.34	220	800	220	800	0.938	19.28
	Am. Indian/AK Nat.	697	495.63	77.86	220	800	220	778	0.944	18.36
	Asian/Pac. Isl.	1972	552.72	77.72	220	800	220	800	0.942	18.78
	Black	3424	476.95	80.84	220	800	220	800	0.946	18.83
	Hispanic	15847	482.74	74.77	220	800	220	800	0.939	18.43
	White	34790	538.80	72.42	220	800	220	800	0.937	18.15
	Free Lunch Elig.	16870	478.44	75.04	220	800	220	800	0.939	18.49
	Reduced Lunch Elig.	4243	502.71	72.58	220	800	220	800	0.939	17.86
	Not FRL Elig.	35570	540.77	72.98	220	800	220	800	0.937	18.26
	Female	27712	519.05	76.05	220	800	220	800	0.943	18.15
	Male	29016	519.66	81.44	220	800	220	800	0.949	18.45
	Lang. Prof. NA	47037	528.47	76.02	220	800	220	800	0.943	18.20
	Lang. Prof. NEP	1697	404.03	75.97	220	800	220	620	0.918	21.70
	Lang. Prof. LEP	4597	467.04	61.47	220	800	220	742	0.917	17.75
	Lang. Prof. FEP	3397	521.64	65.58	220	800	272	800	0.926	17.80
	Not Mig. or Immig.	55331	520.81	78.27	220	800	220	800	0.945	18.29
	Mig. or Immig.	1368	460.86	80.25	220	800	220	800	0.940	19.59
6	No Disability	50754	545.70	71.30	240	830	240	830	0.934	18.28
	Disability	5689	458.11	81.00	240	830	240	799	0.929	21.58
	No Accommodation	48455	548.48	70.30	240	830	240	830	0.933	18.22
	Accommodation	7997	466.52	78.37	240	830	240	813	0.927	21.17
	Am. Indian/AK Nat.	636	510.95	73.82	240	830	240	700	0.935	18.77
	Asian/Pac. Isl.	1991	569.41	76.53	240	830	240	830	0.941	18.64
	Black	3360	497.02	77.45	240	830	240	830	0.933	19.98
	Hispanic	15417	498.52	72.03	240	830	240	830	0.928	19.36
	White	35043	556.18	70.83	240	830	240	830	0.934	18.23
	Free Lunch Elig.	16091	493.97	72.27	240	830	240	830	0.926	19.63
	Reduced Lunch Elig.	4165	520.29	70.18	240	830	240	830	0.930	18.60
	Not FRL Elig.	36161	557.90	71.17	240	830	240	830	0.934	18.23
	Female	27471	536.15	74.49	240	830	240	830	0.939	18.37
	Male	28974	537.55	79.30	240	830	240	830	0.943	18.90
	Lang. Prof. NA	47487	545.56	74.10	240	830	240	830	0.938	18.43
	Lang. Prof. NEP	1274	414.50	78.82	240	830	240	666	0.899	25.10
	Lang. Prof. LEP	3850	478.19	59.41	240	830	240	706	0.898	19.01
	Lang. Prof. FEP	3835	528.79	65.07	240	830	250	815	0.922	18.18
	Not Mig. or Immig.	55157	538.39	76.25	240	830	240	830	0.941	18.59
	Mig. or Immig.	1285	471.62	80.46	240	830	240	706	0.928	21.56

**Table 221. Subgroup Reliability for the CSAP Mathematics Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
7	No Disability	51409	565.13	64.87	280	860	280	860	0.928	17.38
	Disability	5430	478.58	77.13	280	860	280	707	0.896	24.83
	No Accommodation	50441	565.97	64.83	280	860	280	860	0.928	17.38
	Accommodation	6406	485.12	75.30	280	860	280	770	0.897	24.19
	Am. Indian/AK Nat.	711	535.52	68.56	280	860	280	751	0.922	19.11
	Asian/Pac. Isl.	1845	588.23	67.27	280	860	280	860	0.935	17.17
	Black	3484	516.85	73.09	280	860	280	763	0.914	21.38
	Hispanic	15376	521.95	64.89	280	860	280	860	0.903	20.21
	White	35431	574.74	65.64	280	860	280	860	0.930	17.35
	Free Lunch Elig.	16002	516.69	66.81	280	860	280	742	0.902	20.92
	Reduced Lunch Elig.	4022	541.19	62.74	280	860	280	741	0.914	18.44
	Not FRL Elig.	36791	576.06	65.47	280	860	280	860	0.930	17.31
	Female	27738	557.19	67.71	280	860	280	860	0.929	18.03
	Male	29107	556.55	73.75	280	860	280	860	0.936	18.59
	Lang. Prof. NA	48185	564.10	69.13	280	860	280	860	0.932	17.98
	Lang. Prof. NEP	1121	452.19	77.20	280	860	280	685	0.843	30.55
	Lang. Prof. LEP	3520	505.25	53.71	280	860	280	751	0.853	20.58
	Lang. Prof. FEP	4019	544.48	58.03	280	860	280	753	0.907	17.74
	Not Mig. or Immig.	55615	558.06	70.25	280	860	280	860	0.933	18.24
	Mig. or Immig.	1221	502.30	77.02	280	860	280	751	0.909	23.17
8	No Disability	52587	573.01	60.47	310	890	310	890	0.925	16.60
	Disability	5025	488.16	72.76	310	890	310	714	0.878	25.44
	No Accommodation	51592	573.10	60.82	310	890	310	890	0.925	16.67
	Accommodation	6028	501.53	74.54	310	890	310	741	0.900	23.60
	Am. Indian/AK Nat.	703	544.88	63.67	310	890	310	701	0.906	19.53
	Asian/Pac. Isl.	1737	592.33	63.20	310	890	310	890	0.936	16.03
	Black	3552	526.00	67.49	310	890	310	746	0.895	21.82
	Hispanic	15186	531.11	63.46	310	890	310	789	0.894	20.68
	White	36441	582.98	59.41	310	890	310	890	0.925	16.27
	Free Lunch Elig.	15366	526.56	63.82	310	890	310	743	0.888	21.33
	Reduced Lunch Elig.	4033	550.14	59.82	310	890	310	721	0.901	18.78
	Not FRL Elig.	38181	582.99	60.28	310	890	310	890	0.926	16.35
	Female	28118	565.39	62.55	310	890	310	791	0.922	17.51
	Male	29502	565.82	69.36	310	890	310	890	0.933	17.98
	Lang. Prof. NA	49424	572.34	63.93	310	890	310	890	0.927	17.23
	Lang. Prof. NEP	966	467.32	69.10	310	890	310	662	0.824	29.02
	Lang. Prof. LEP	3124	510.56	55.53	310	890	310	728	0.842	22.08
	Lang. Prof. FEP	4105	549.64	57.49	310	890	310	723	0.901	18.12
	Not Mig. or Immig.	56375	566.70	65.68	310	890	310	890	0.928	17.68
	Mig. or Immig.	1235	516.25	67.31	310	890	310	728	0.898	21.55

**Table 221. Subgroup Reliability for the CSAP Mathematics Tests (Concluded)**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
9	No Disability	54820	577.47	68.38	340	920	340	859	0.919	19.49
	Disability	4984	485.11	78.99	340	920	340	746	0.860	29.53
	No Accommodation	55481	576.02	69.48	340	920	340	859	0.919	19.76
	Accommodation	4344	490.00	81.56	340	920	340	752	0.880	28.26
	Am. Indian/AK Nat.	727	547.44	71.12	340	920	340	688	0.892	23.33
	Asian/Pac. Isl.	1857	596.00	71.61	340	920	340	839	0.932	18.68
	Black	3699	523.43	76.50	340	920	340	726	0.877	26.81
	Hispanic	15309	529.35	70.90	340	920	340	789	0.876	24.99
	White	38231	589.59	65.72	340	920	340	859	0.918	18.80
	Free Lunch Elig.	13681	524.08	72.19	340	920	340	784	0.871	25.89
	Reduced Lunch Elig.	3623	553.38	67.04	340	920	340	753	0.891	22.09
	Not FRL Elig.	42471	585.91	68.29	340	920	340	859	0.921	19.24
	Female	29280	570.03	69.43	340	920	340	820	0.914	20.40
	Male	30537	569.53	77.89	340	920	340	859	0.927	21.03
	Lang. Prof. NA	51957	577.04	71.06	340	920	340	859	0.921	20.03
	Lang. Prof. NEP	1171	448.74	73.32	340	920	340	717	0.753	36.43
	Lang. Prof. LEP	2822	510.10	62.85	340	920	340	706	0.824	26.35
	Lang. Prof. FEP	3868	552.26	63.47	340	920	340	811	0.885	21.51
	Not Mig. or Immig.	58577	571.35	72.85	340	920	340	859	0.921	20.52
	Mig. or Immig.	1220	494.91	82.96	340	920	340	717	0.877	29.14
10	No Disability	50651	593.17	68.31	370	950	370	877	0.924	18.83
	Disability	4289	502.68	76.08	370	950	370	768	0.868	27.63
	No Accommodation	51634	591.29	69.55	370	950	370	877	0.924	19.11
	Accommodation	3335	505.57	79.13	370	950	370	780	0.888	26.46
	Am. Indian/AK Nat.	603	559.04	72.13	370	950	370	740	0.908	21.88
	Asian/Pac. Isl.	1779	612.20	71.66	370	950	370	800	0.936	18.12
	Black	3269	539.54	73.49	370	950	370	788	0.891	24.29
	Hispanic	12709	544.89	69.51	370	950	370	751	0.884	23.66
	White	36607	603.72	66.24	370	950	370	877	0.924	18.32
	Free Lunch Elig.	10908	539.29	70.36	370	950	370	775	0.879	24.50
	Reduced Lunch Elig.	3012	566.79	68.66	370	950	370	775	0.900	21.71
	Not FRL Elig.	41003	600.00	68.47	370	950	370	877	0.926	18.66
	Female	26976	584.34	69.27	370	950	370	812	0.919	19.68
	Male	27984	587.78	76.56	370	950	370	877	0.932	20.03
	Lang. Prof. NA	48670	592.48	70.66	370	950	370	877	0.925	19.30
	Lang. Prof. NEP	954	469.84	69.26	370	950	370	708	0.808	30.36
	Lang. Prof. LEP	2279	525.69	63.53	370	950	370	735	0.846	24.94
	Lang. Prof. FEP	3059	565.64	63.59	370	950	370	767	0.899	20.17
	Not Mig. or Immig.	53904	587.39	72.35	370	950	370	877	0.926	19.69
	Mig. or Immig.	1033	519.07	80.12	370	950	370	722	0.892	26.29

**Table 222. Subgroup Reliability for the CSAP Reading Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
3	No Disability	50552	565.01	72.17	150	795	150	795	0.877	25.35
	Disability	5634	470.05	110.50	150	795	150	763	0.899	35.04
	No Accommodation	44837	571.61	69.51	150	795	150	795	0.868	25.29
	Accommodation	11359	491.83	95.54	150	795	150	795	0.886	32.23
	Am. Indian/AK Nat.	663	524.69	89.02	150	795	150	773	0.898	28.37
	Asian/Pac. Isl.	2068	568.75	73.32	150	795	150	795	0.884	24.93
	Black	3516	525.68	85.50	150	795	150	795	0.889	28.49
	Hispanic	15677	517.81	86.04	150	795	150	795	0.885	29.24
	White	34270	575.56	72.41	150	795	150	795	0.877	25.41
	Free Lunch Elig.	17222	514.61	87.89	150	795	150	795	0.886	29.72
	Reduced Lunch Elig.	4181	544.23	73.35	150	795	150	795	0.876	25.86
	Not FRL Elig.	34742	577.11	71.29	150	795	150	795	0.874	25.29
	Female	27533	561.37	78.50	150	795	150	795	0.889	26.11
	Male	28658	549.83	84.87	150	795	150	795	0.898	27.05
	Lang. Prof. NA	47011	566.53	75.50	150	795	150	795	0.884	25.73
	Lang. Prof. NEP	2055	406.73	107.90	150	795	150	641	0.810	47.06
	Lang. Prof. LEP	5125	512.34	59.30	150	795	150	732	0.814	25.58
	Lang. Prof. FEP	2004	559.20	60.36	150	795	150	785	0.836	24.46
	Not Mig. or Immig.	54506	557.57	80.44	150	795	150	795	0.893	26.37
	Mig. or Immig.	1679	487.95	101.20	150	795	150	795	0.890	33.52
4	No Disability	50548	592.95	61.13	180	940	180	841	0.929	16.25
	Disability	5682	507.43	95.33	180	940	180	736	0.938	23.68
	No Accommodation	44688	599.24	57.72	180	940	180	841	0.922	16.07
	Accommodation	11588	526.66	83.52	180	940	180	785	0.934	21.44
	Am. Indian/AK Nat.	633	563.53	72.07	180	940	180	749	0.937	18.15
	Asian/Pac. Isl.	2058	600.06	64.43	180	940	180	782	0.932	16.84
	Black	3226	555.04	76.64	180	940	180	732	0.937	19.21
	Hispanic	16011	548.02	75.08	180	940	180	841	0.934	19.31
	White	34343	603.39	59.11	180	940	180	823	0.925	16.22
	Free Lunch Elig.	17008	545.67	75.55	180	940	180	756	0.933	19.50
	Reduced Lunch Elig.	4200	574.08	64.15	180	940	180	744	0.929	17.13
	Not FRL Elig.	34983	604.33	59.42	180	940	180	841	0.925	16.30
	Female	27659	591.75	66.07	180	940	180	841	0.937	16.62
	Male	28612	577.09	73.45	180	940	180	823	0.941	17.86
	Lang. Prof. NA	46407	595.15	63.35	180	940	180	841	0.931	16.64
	Lang. Prof. NEP	1568	439.57	96.61	180	940	180	683	0.881	33.36
	Lang. Prof. LEP	5406	532.46	56.83	180	940	180	732	0.895	18.45
	Lang. Prof. FEP	2892	585.58	49.12	180	940	180	770	0.900	15.50
	Not Mig. or Immig.	54977	585.90	68.93	180	940	180	841	0.938	17.14
	Mig. or Immig.	1250	514.64	91.36	180	940	180	749	0.937	22.92

**Table 222. Subgroup Reliability for the CSAP Reading Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
5	No Disability	50871	619.41	61.66	220	955	220	869	0.928	16.55
	Disability	5820	534.28	85.24	220	955	220	777	0.931	22.46
	No Accommodation	45564	624.70	58.82	220	955	220	869	0.923	16.34
	Accommodation	11143	553.25	79.42	220	955	220	833	0.930	20.94
	Am. Indian/AK Nat.	697	594.04	67.96	220	955	220	771	0.928	18.22
	Asian/Pac. Isl.	1966	624.26	66.88	220	955	220	832	0.934	17.14
	Black	3433	581.35	70.04	220	955	220	788	0.932	18.32
	Hispanic	15843	574.39	71.52	220	955	220	833	0.928	19.16
	White	34766	629.66	60.40	220	955	220	869	0.926	16.43
	Free Lunch Elig.	16884	572.63	71.42	220	955	220	809	0.928	19.22
	Reduced Lunch Elig.	4244	596.53	63.73	220	955	220	792	0.926	17.38
	Not FRL Elig.	35549	630.42	60.70	220	955	220	869	0.926	16.49
	Female	27715	617.70	64.72	220	955	220	869	0.934	16.62
	Male	28989	603.94	73.08	220	955	220	864	0.940	17.91
	Lang. Prof. NA	47018	621.03	63.65	220	955	220	869	0.931	16.69
	Lang. Prof. NEP	1650	468.22	84.22	220	955	220	684	0.840	33.68
	Lang. Prof. LEP	4630	557.96	51.31	220	955	220	724	0.875	18.15
	Lang. Prof. FEP	3398	608.12	47.88	220	955	366	864	0.892	15.71
	Not Mig. or Immig.	55337	612.57	67.86	220	955	220	869	0.936	17.16
	Mig. or Immig.	1354	532.72	87.04	220	955	220	752	0.930	23.10
6	No Disability	50664	632.41	61.88	260	970	260	839	0.925	16.96
	Disability	5648	545.71	94.26	260	970	260	767	0.924	25.98
	No Accommodation	47365	635.11	60.38	260	970	260	839	0.923	16.79
	Accommodation	8955	563.44	89.05	260	970	260	817	0.928	23.96
	Am. Indian/AK Nat.	640	603.86	73.13	260	970	260	837	0.930	19.37
	Asian/Pac. Isl.	1983	637.00	64.52	260	970	260	794	0.927	17.49
	Black	3353	591.88	75.74	260	970	260	767	0.921	21.34
	Hispanic	15352	584.75	75.74	260	970	260	788	0.921	21.34
	White	34991	643.46	59.16	260	970	260	839	0.921	16.61
	Free Lunch Elig.	16017	580.91	77.21	260	970	260	770	0.919	22.04
	Reduced Lunch Elig.	4161	609.76	64.24	260	970	260	790	0.916	18.61
	Not FRL Elig.	36109	644.33	58.62	260	970	260	839	0.921	16.49
	Female	27422	630.93	66.22	260	970	260	837	0.931	17.43
	Male	28897	616.86	74.26	260	970	260	839	0.935	18.91
	Lang. Prof. NA	47400	634.08	63.93	260	970	260	839	0.927	17.29
	Lang. Prof. NEP	1235	462.97	100.50	260	970	260	729	0.833	41.01
	Lang. Prof. LEP	3850	559.90	57.53	260	970	260	736	0.859	21.59
	Lang. Prof. FEP	3829	611.39	51.59	260	970	260	788	0.890	17.08
	Not Mig. or Immig.	55045	625.80	68.65	260	970	260	839	0.932	17.91
	Mig. or Immig.	1266	532.90	98.56	260	970	260	737	0.915	28.70

**Table 222. Subgroup Reliability for the CSAP Reading Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hos s	Min.	Max.	Alpha	SEM
7	No Disability	51348	644.63	61.78	300	980	300	897	0.927	16.71
	Disability	5407	553.02	87.18	300	980	300	764	0.919	24.86
	No Accommodation	50344	645.59	61.12	300	980	300	897	0.926	16.68
	Accommodation	6421	559.89	86.66	300	980	300	821	0.924	23.92
	Am. Indian/AK Nat.	704	617.22	68.90	300	980	300	807	0.924	18.98
	Asian/Pac. Isl.	1841	650.15	67.07	300	980	300	885	0.934	17.28
	Black	3470	606.62	74.28	300	980	300	799	0.928	19.97
	Hispanic	15341	597.18	72.88	300	980	300	794	0.924	20.08
	White	35409	655.17	59.69	300	980	300	897	0.924	16.45
	Free Lunch Elig.	15965	594.06	74.30	300	980	300	800	0.923	20.63
	Reduced Lunch Elig.	4001	621.37	65.94	300	980	300	823	0.924	18.14
	Not FRL Elig.	36768	655.65	59.31	300	980	300	897	0.924	16.40
	Female	27729	643.49	65.98	300	980	300	897	0.934	16.99
	Male	29035	628.65	72.90	300	980	300	885	0.937	18.25
	Lang. Prof. NA	48132	645.70	63.74	300	980	300	897	0.929	16.93
	Lang. Prof. NEP	1096	471.03	89.42	300	980	300	687	0.819	38.03
	Lang. Prof. LEP	3514	569.97	56.76	300	980	300	722	0.861	21.18
	Lang. Prof. FEP	4019	621.14	54.56	300	980	300	822	0.902	17.04
	Not Mig. or Immig.	55543	637.96	67.95	300	980	300	897	0.934	17.43
	Mig. or Immig.	1211	541.45	93.49	300	980	300	758	0.924	25.77
8	No Disability	52563	653.72	56.15	330	990	330	990	0.923	15.62
	Disability	5035	573.07	69.16	330	990	330	779	0.904	21.41
	No Accommodation	51886	653.94	56.05	330	990	330	990	0.922	15.65
	Accommodation	5719	580.68	71.24	330	990	330	805	0.914	20.88
	Am. Indian/AK Nat.	703	628.54	61.12	330	990	330	775	0.925	16.68
	Asian/Pac. Isl.	1732	657.30	62.68	330	990	330	813	0.927	16.97
	Black	3562	617.36	61.94	330	990	330	782	0.913	18.29
	Hispanic	15145	611.97	61.66	330	990	330	836	0.915	17.96
	White	36461	663.79	54.07	330	990	330	990	0.918	15.48
	Free Lunch Elig.	15327	608.73	61.70	330	990	330	831	0.912	18.33
	Reduced Lunch Elig.	4030	632.89	54.37	330	990	330	789	0.910	16.27
	Not FRL Elig.	38209	663.36	55.03	330	990	330	990	0.920	15.55
	Female	28117	654.26	58.29	330	990	330	990	0.928	15.59
	Male	29488	639.43	64.06	330	990	330	851	0.932	16.72
	Lang. Prof. NA	49444	654.83	57.49	330	990	330	990	0.924	15.83
	Lang. Prof. NEP	942	512.86	67.41	330	990	330	698	0.737	34.58
	Lang. Prof. LEP	3114	581.22	48.42	330	990	330	755	0.836	19.62
	Lang. Prof. FEP	4103	628.77	49.12	330	990	330	804	0.892	16.11
	Not Mig. or Immig.	56375	648.36	60.35	330	990	330	990	0.929	16.10
	Mig. or Immig.	1219	569.12	74.27	330	990	330	756	0.904	23.04

**Table 222. Subgroup Reliability for the CSAP Reading Tests (Concluded)**

Grade	Subgroup	N	Mean	STD	Loss	Hos s	Min.	Max.	Alpha	SEM
9	No Disability	54585	665.32	50.04	350	995	350	843	0.925	13.71
	Disability	4924	595.15	65.97	350	995	350	776	0.912	19.53
	No Accommodation	55536	664.30	50.85	350	995	350	843	0.926	13.85
	Accommodation	3994	592.85	66.63	350	995	350	835	0.914	19.57
	Am. Indian/AK Nat.	717	644.68	57.67	350	995	350	761	0.927	15.62
	Asian/Pac. Isl.	1851	667.87	55.21	350	995	350	843	0.933	14.29
	Black	3654	633.89	58.97	350	995	350	772	0.924	16.25
	Hispanic	15178	628.50	55.70	350	995	350	778	0.918	15.94
	White	38126	674.18	47.79	350	995	350	835	0.919	13.59
	Free Lunch Elig.	13540	624.90	57.49	350	995	350	814	0.917	16.57
	Reduced Lunch Elig.	3604	647.96	49.90	350	995	350	827	0.915	14.53
	Not FRL Elig.	42336	671.57	49.49	350	995	350	843	0.924	13.63
	Female	29168	666.83	50.50	350	995	350	843	0.928	13.52
	Male	30355	652.48	58.23	350	995	350	835	0.935	14.82
	Lang. Prof. NA	51758	666.27	50.93	350	995	350	843	0.926	13.90
	Lang. Prof. NEP	1138	546.14	64.95	350	995	350	692	0.802	28.92
	Lang. Prof. LEP	2793	603.04	46.13	350	995	350	752	0.860	17.24
	Lang. Prof. FEP	3834	643.09	46.95	350	995	350	797	0.900	14.84
	Not Mig. or Immig.	58300	661.11	53.56	350	995	350	843	0.930	14.14
	Mig. or Immig.	1203	582.86	69.51	350	995	350	756	0.907	21.19
10	No Disability	50413	689.15	52.54	370	999	370	881	0.931	13.78
	Disability	4255	614.17	70.72	370	999	370	838	0.915	20.65
	No Accommodation	51625	687.40	54.23	370	999	370	881	0.933	14.03
	Accommodation	3072	614.48	70.49	370	999	370	818	0.921	19.81
	Am. Indian/AK Nat.	606	665.35	55.31	370	999	370	803	0.928	14.84
	Asian/Pac. Isl.	1769	690.28	56.50	370	999	370	837	0.938	14.10
	Black	3233	657.21	64.05	370	999	370	797	0.932	16.71
	Hispanic	12577	651.01	61.38	370	999	370	822	0.927	16.64
	White	36511	696.70	50.26	370	999	370	881	0.928	13.48
	Free Lunch Elig.	10764	647.20	61.73	370	999	370	830	0.924	17.02
	Reduced Lunch Elig.	2997	668.63	56.69	370	999	370	813	0.927	15.33
	Not FRL Elig.	40891	693.92	52.42	370	999	370	881	0.932	13.70
	Female	26874	693.50	50.99	370	999	370	881	0.932	13.31
	Male	27817	673.46	62.06	370	999	370	840	0.940	15.22
	Lang. Prof. NA	48463	689.46	53.91	370	999	370	881	0.933	13.97
	Lang. Prof. NEP	931	561.50	66.17	370	999	370	747	0.766	32.01
	Lang. Prof. LEP	2270	624.18	51.17	370	999	370	763	0.859	19.19
	Lang. Prof. FEP	3026	666.62	48.77	370	999	370	808	0.906	14.97
	Not Mig. or Immig.	53650	684.76	56.49	370	999	370	881	0.936	14.28
	Mig. or Immig.	1013	607.38	71.77	370	999	370	774	0.920	20.33

**Table 223. Subgroup Reliability for the CSAP Writing Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
3	No Disability	50599	473.73	47.06	150	680	150	680	0.908	14.30
	Disability	5643	422.22	52.79	150	680	150	592	0.914	15.51
	No Accommodation	45520	477.94	45.64	150	680	150	680	0.901	14.33
	Accommodation	10738	428.78	48.70	150	680	150	680	0.905	14.98
	Am. Indian/AK Nat.	667	448.26	52.46	150	680	150	680	0.920	14.85
	Asian/Pac. Isl.	2073	478.58	48.01	150	680	150	680	0.912	14.28
	Black	3536	448.54	53.12	150	680	150	680	0.926	14.45
	Hispanic	15694	445.65	48.80	150	680	150	680	0.914	14.27
	White	34283	480.90	45.82	150	680	150	680	0.900	14.47
	Free Lunch Elig.	17220	443.11	48.91	150	680	150	680	0.914	14.34
	Reduced Lunch Elig.	4171	461.04	44.56	150	680	150	680	0.905	13.72
	Not FRL Elig.	34830	482.05	46.11	150	680	150	680	0.901	14.49
	Female	27567	476.50	49.09	150	680	150	680	0.915	14.27
	Male	28683	460.93	49.91	150	680	150	680	0.919	14.21
	Lang. Prof. NA	47043	474.88	47.52	150	680	150	680	0.910	14.28
	Lang. Prof. NEP	2072	388.92	57.74	150	680	150	600	0.880	20.04
	Lang. Prof. LEP	5142	441.91	35.48	150	680	150	583	0.866	12.97
	Lang. Prof. FEP	1994	470.86	38.87	150	680	150	600	0.875	13.76
	Not Mig. or Immig.	54572	469.73	49.45	150	680	150	680	0.917	14.29
	Mig. or Immig.	1670	430.37	56.38	150	680	150	600	0.926	15.36
4	No Disability	50549	488.10	49.66	190	730	190	730	0.915	14.52
	Disability	5684	435.91	46.03	190	730	190	636	0.912	13.69
	No Accommodation	44311	492.88	48.25	190	730	190	730	0.908	14.62
	Accommodation	11968	445.60	47.04	190	730	190	730	0.912	13.99
	Am. Indian/AK Nat.	633	465.21	49.63	190	730	280	659	0.920	14.00
	Asian/Pac. Isl.	2056	498.26	53.42	190	730	266	730	0.918	15.29
	Black	3230	461.26	49.50	190	730	190	657	0.922	13.87
	Hispanic	16017	456.91	47.71	190	730	190	729	0.918	13.70
	White	34338	496.34	48.17	190	730	190	730	0.905	14.84
	Free Lunch Elig.	17018	454.62	46.61	190	730	190	698	0.916	13.51
	Reduced Lunch Elig.	4197	473.54	45.42	190	730	289	730	0.908	13.76
	Not FRL Elig.	34979	497.67	48.78	190	730	190	730	0.907	14.92
	Female	27670	490.79	52.39	190	730	190	730	0.920	14.82
	Male	28604	475.11	49.92	190	730	190	730	0.924	13.74
	Lang. Prof. NA	46406	490.26	49.37	190	730	190	730	0.913	14.55
	Lang. Prof. NEP	1571	395.80	43.82	190	730	190	532	0.863	16.22
	Lang. Prof. LEP	5407	444.27	36.34	190	730	213	730	0.876	12.82
	Lang. Prof. FEP	2892	482.82	41.28	190	730	252	730	0.877	14.50
	Not Mig. or Immig.	54980	483.89	51.13	190	730	190	730	0.921	14.34
	Mig. or Immig.	1250	436.42	57.05	190	730	190	730	0.930	15.06



**Table 223. Subgroup Reliability for the CSAP Writing Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
5	No Disability	50854	512.98	52.49	220	780	220	780	0.901	16.49
	Disability	5834	452.34	47.37	220	780	220	685	0.888	15.88
	No Accommodation	45225	517.14	50.87	220	780	220	780	0.894	16.54
	Accommodation	11479	465.74	52.20	220	780	220	765	0.901	16.44
	Am. Indian/AK Nat.	695	488.48	50.67	220	780	220	647	0.903	15.76
	Asian/Pac. Isl.	1970	523.40	56.32	220	780	220	730	0.909	16.97
	Black	3430	483.82	51.83	220	780	220	701	0.907	15.78
	Hispanic	15826	480.33	51.12	220	780	220	780	0.902	15.97
	White	34781	520.44	51.91	220	780	220	780	0.898	16.60
	Free Lunch Elig.	16869	477.36	49.53	220	780	220	701	0.900	15.67
	Reduced Lunch Elig.	4241	494.89	49.43	220	780	292	746	0.898	15.77
	Not FRL Elig.	35564	522.09	52.27	220	780	220	780	0.898	16.73
	Female	27716	517.69	54.87	220	780	220	780	0.909	16.56
	Male	28985	496.27	53.36	220	780	220	765	0.911	15.90
	Lang. Prof. NA	47025	513.96	52.97	220	780	220	780	0.904	16.41
	Lang. Prof. NEP	1652	413.55	46.84	220	780	220	596	0.825	19.60
	Lang. Prof. LEP	4619	467.13	37.60	220	780	220	632	0.843	14.90
	Lang. Prof. FEP	3397	505.85	43.19	220	780	344	742	0.860	16.15
	Not Mig. or Immig.	55334	508.07	54.34	220	780	220	780	0.910	16.33
	Mig. or Immig.	1354	452.18	60.27	220	780	220	659	0.914	17.67
6	No Disability	50701	534.08	59.29	230	840	230	840	0.898	18.97
	Disability	5671	461.48	56.05	230	840	230	751	0.874	19.89
	No Accommodation	47766	536.95	57.32	230	840	230	840	0.892	18.87
	Accommodation	8614	470.35	62.48	230	840	230	840	0.891	20.62
	Am. Indian/AK Nat.	636	507.44	61.02	230	840	230	729	0.904	18.89
	Asian/Pac. Isl.	1981	544.75	64.27	230	840	261	809	0.904	19.90
	Black	3366	501.73	59.99	230	840	230	823	0.899	19.07
	Hispanic	15373	495.11	59.49	230	840	230	809	0.895	19.29
	White	35023	542.41	58.27	230	840	230	840	0.895	18.87
	Free Lunch Elig.	16037	490.99	58.32	230	840	230	823	0.892	19.20
	Reduced Lunch Elig.	4159	513.73	55.21	230	840	258	823	0.884	18.77
	Not FRL Elig.	36151	544.17	58.43	230	840	230	840	0.895	18.96
	Female	27444	539.35	61.42	230	840	230	840	0.904	19.06
	Male	28935	514.85	61.92	230	840	230	840	0.908	18.78
	Lang. Prof. NA	47459	535.05	59.61	230	840	230	840	0.900	18.82
	Lang. Prof. NEP	1233	404.94	62.21	230	840	230	740	0.824	26.06
	Lang. Prof. LEP	3853	471.98	42.06	230	840	259	682	0.810	18.34
	Lang. Prof. FEP	3829	518.50	49.38	230	840	312	823	0.860	18.46
	Not Mig. or Immig.	55103	528.45	61.62	230	840	230	840	0.906	18.88
	Mig. or Immig.	1268	453.77	73.31	230	840	230	674	0.898	23.45

**Table 223. Subgroup Reliability for the CSAP Writing Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
7	No Disability	51340	564.55	67.48	240	890	240	890	0.905	20.76
	Disability	5419	480.29	58.53	240	890	240	709	0.876	20.58
	No Accommodation	50106	565.80	66.62	240	890	240	890	0.903	20.76
	Accommodation	6663	486.55	64.62	240	890	240	876	0.891	21.31
	Am. Indian/AK Nat.	707	536.21	66.18	240	890	240	803	0.905	20.41
	Asian/Pac. Isl.	1841	580.05	75.02	240	890	240	890	0.914	21.99
	Black	3473	528.53	64.10	240	890	240	890	0.903	20.01
	Hispanic	15341	520.88	64.69	240	890	240	890	0.901	20.32
	White	35407	573.86	67.45	240	890	240	890	0.905	20.75
	Free Lunch Elig.	15967	516.56	63.50	240	890	240	864	0.898	20.24
	Reduced Lunch Elig.	3998	540.70	62.84	240	890	240	890	0.899	19.99
	Not FRL Elig.	36771	575.57	67.38	240	890	240	890	0.904	20.85
	Female	27716	572.04	70.00	240	890	240	890	0.910	20.95
	Male	29052	541.68	68.99	240	890	240	890	0.915	20.10
	Lang. Prof. NA	48137	565.01	68.54	240	890	240	890	0.909	20.63
	Lang. Prof. NEP	1091	421.01	64.50	240	890	240	684	0.829	26.66
	Lang. Prof. LEP	3517	495.83	45.52	240	890	272	702	0.828	18.90
	Lang. Prof. FEP	4019	544.41	54.81	240	890	240	890	0.867	19.96
	Not Mig. or Immig.	55549	558.30	69.83	240	890	240	890	0.913	20.61
	Mig. or Immig.	1208	473.97	80.53	240	890	240	793	0.915	23.43
8	No Disability	52580	565.47	70.36	250	910	250	910	0.903	21.91
	Disability	5045	475.51	60.52	250	910	250	741	0.873	21.55
	No Accommodation	51544	566.51	69.38	250	910	250	910	0.901	21.85
	Accommodation	6089	482.05	69.23	250	910	250	910	0.892	22.80
	Am. Indian/AK Nat.	700	535.99	66.81	250	910	320	776	0.904	20.68
	Asian/Pac. Isl.	1735	575.75	76.55	250	910	250	910	0.905	23.56
	Black	3569	525.18	67.68	250	910	250	910	0.903	21.03
	Hispanic	15153	518.73	66.72	250	910	250	910	0.898	21.32
	White	36474	576.45	69.97	250	910	250	910	0.902	21.93
	Free Lunch Elig.	15343	514.14	65.19	250	910	250	910	0.894	21.18
	Reduced Lunch Elig.	4030	539.60	63.21	250	910	250	832	0.890	20.92
	Not FRL Elig.	38220	576.97	70.48	250	910	250	910	0.903	21.99
	Female	28133	573.39	72.44	250	910	250	910	0.907	22.13
	Male	29500	542.52	72.43	250	910	250	910	0.915	21.15
	Lang. Prof. NA	49465	566.46	71.27	250	910	250	910	0.907	21.70
	Lang. Prof. NEP	944	407.43	66.93	250	910	250	599	0.788	30.80
	Lang. Prof. LEP	3118	487.70	45.35	250	910	253	686	0.806	19.98
	Lang. Prof. FEP	4104	538.30	54.74	250	910	250	910	0.862	20.32
	Not Mig. or Immig.	56401	559.53	72.63	250	910	250	910	0.911	21.64
	Mig. or Immig.	1220	468.32	83.49	250	910	250	741	0.905	25.73

**Table 223. Subgroup Reliability for the CSAP Writing Tests (Concluded)**

Grade	Subgroup	N	Mean	STD	Loss	Hos	Min.	Max.	Alpha	SEM
9	No Disability	54582	571.21	74.25	260	930	260	930	0.914	21.77
	Disability	4920	477.60	61.79	260	930	260	930	0.872	22.08
	No Accommodation	55312	570.18	74.35	260	930	260	930	0.914	21.75
	Accommodation	4211	475.32	66.10	260	930	260	869	0.878	23.09
	Am. Indian/AK Nat.	716	541.09	69.41	260	930	305	787	0.907	21.13
	Asian/Pac. Isl.	1850	580.16	80.40	260	930	288	930	0.921	22.57
	Black	3651	529.18	72.34	260	930	260	842	0.910	21.69
	Hispanic	15173	520.51	68.57	260	930	260	930	0.900	21.72
	White	38129	583.46	73.34	260	930	260	930	0.911	21.85
	Free Lunch Elig.	13536	515.64	67.83	260	930	260	869	0.897	21.73
	Reduced Lunch Elig.	3602	543.71	64.94	260	930	260	806	0.899	20.60
	Not FRL Elig.	42335	580.46	74.82	260	930	260	930	0.915	21.82
	Female	29175	580.10	75.76	260	930	260	930	0.916	21.91
	Male	30341	547.48	76.17	260	930	260	930	0.921	21.37
	Lang. Prof. NA	51752	572.42	74.83	260	930	260	930	0.916	21.71
	Lang. Prof. NEP	1132	419.92	61.73	260	930	260	610	0.771	29.54
	Lang. Prof. LEP	2797	489.12	48.02	260	930	260	710	0.811	20.87
	Lang. Prof. FEP	3835	539.25	59.46	260	930	260	930	0.877	20.87
	Not Mig. or Immig.	58298	565.54	76.34	260	930	260	930	0.919	21.70
	Mig. or Immig.	1198	463.71	77.67	260	930	260	725	0.889	25.87
10	No Disability	50401	587.69	78.44	270	950	270	950	0.915	22.82
	Disability	4254	487.86	67.02	270	950	270	900	0.886	22.62
	No Accommodation	51507	585.60	79.16	270	950	270	950	0.917	22.79
	Accommodation	3177	487.51	72.74	270	950	270	908	0.895	23.59
	Am. Indian/AK Nat.	607	550.69	73.83	270	950	362	858	0.913	21.77
	Asian/Pac. Isl.	1770	597.63	87.46	270	950	270	950	0.924	24.16
	Black	3227	542.80	77.87	270	950	270	800	0.915	22.69
	Hispanic	12566	534.64	74.81	270	950	270	868	0.909	22.62
	White	36513	598.38	77.26	270	950	270	950	0.913	22.75
	Free Lunch Elig.	10761	528.93	73.70	270	950	270	837	0.905	22.67
	Reduced Lunch Elig.	2997	556.55	73.03	270	950	270	810	0.911	21.78
	Not FRL Elig.	40880	595.08	78.92	270	950	270	950	0.917	22.79
	Female	26854	597.52	80.00	270	950	270	950	0.918	22.98
	Male	27824	562.89	80.46	270	950	270	950	0.923	22.34
	Lang. Prof. NA	48457	588.01	79.13	270	950	270	950	0.918	22.67
	Lang. Prof. NEP	932	422.53	63.72	270	950	270	651	0.771	30.48
	Lang. Prof. LEP	2263	503.28	55.41	270	950	270	950	0.844	21.92
	Lang. Prof. FEP	3025	555.77	65.37	270	950	294	871	0.885	22.13
	Not Mig. or Immig.	53638	581.83	80.79	270	950	270	950	0.921	22.72
	Mig. or Immig.	1013	479.10	86.78	270	950	270	754	0.912	25.70

**Table 224. Subgroup Reliability for the CSAP Science Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
5	No Disability	50892	558.73	54.62	300	790	300	790	0.920	15.46
	Disability	5830	505.44	61.88	300	790	300	751	0.930	16.43
	No Accommodation	47789	562.78	52.31	300	790	300	790	0.913	15.42
	Accommodation	8948	502.39	58.70	300	790	300	700	0.921	16.46
	Am. Indian/AK Nat.	697	538.86	55.46	300	790	300	714	0.923	15.37
	Asian/Pac. Isl.	1970	564.62	57.63	300	790	300	790	0.925	15.78
	Black	3431	521.74	56.96	300	790	300	785	0.922	15.88
	Hispanic	15843	518.17	56.48	300	790	300	785	0.921	15.90
	White	34793	571.98	48.91	300	790	300	790	0.901	15.38
	Free Lunch Elig.	16877	517.74	56.45	300	790	300	785	0.921	15.88
	Reduced Lunch Elig.	4240	540.91	51.10	300	790	300	781	0.911	15.21
	Not FRL Elig.	35587	571.57	50.37	300	790	300	790	0.907	15.39
	Female	27724	550.85	55.99	300	790	300	790	0.925	15.34
	Male	29009	555.55	59.26	300	790	300	790	0.930	15.63
	Lang. Prof. NA	47044	563.25	52.24	300	790	300	790	0.914	15.35
	Lang. Prof. NEP	1676	437.97	56.37	300	790	300	625	0.870	20.31
	Lang. Prof. LEP	4617	500.48	42.76	300	790	300	647	0.871	15.34
	Lang. Prof. FEP	3392	543.28	44.58	300	790	322	790	0.887	15.00
	Not Mig. or Immig.	55357	554.97	56.39	300	790	300	790	0.925	15.45
	Mig. or Immig.	1364	483.73	67.80	300	790	300	667	0.931	17.84
8	No Disability	52573	509.17	57.15	300	790	300	760	0.921	16.11
	Disability	5048	436.50	65.54	300	790	300	652	0.905	20.19
	No Accommodation	52396	509.60	56.83	300	790	300	760	0.920	16.08
	Accommodation	5235	434.70	64.63	300	790	300	668	0.899	20.49
	Am. Indian/AK Nat.	702	483.64	58.25	300	790	300	646	0.911	17.38
	Asian/Pac. Isl.	1736	516.03	58.86	300	790	300	674	0.926	16.01
	Black	3563	464.46	60.67	300	790	300	642	0.901	19.05
	Hispanic	15147	466.03	59.76	300	790	300	660	0.901	18.76
	White	36481	521.55	53.16	300	790	300	760	0.914	15.55
	Free Lunch Elig.	15320	463.11	59.95	300	790	300	651	0.900	19.00
	Reduced Lunch Elig.	4031	488.73	55.37	300	790	300	659	0.905	17.05
	Not FRL Elig.	38234	520.21	54.52	300	790	300	760	0.917	15.71
	Female	28121	501.59	58.09	300	790	300	760	0.920	16.48
	Male	29505	503.96	64.51	300	790	300	697	0.932	16.84
	Lang. Prof. NA	49469	510.80	57.76	300	790	300	760	0.922	16.17
	Lang. Prof. NEP	956	380.04	57.47	300	790	300	548	0.804	25.46
	Lang. Prof. LEP	3116	440.23	49.05	300	790	300	609	0.830	20.23
	Lang. Prof. FEP	4089	482.33	50.94	300	790	300	652	0.890	16.90
	Not Mig. or Immig.	56389	504.30	60.46	300	790	300	760	0.925	16.54
	Mig. or Immig.	1230	434.32	67.88	300	790	300	623	0.902	21.30

**Table 224. Subgroup Reliability for the CSAP Science Tests (Concluded)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
10	No Disability	50656	508.47	57.42	300	790	300	742	0.935	14.62
	Disability	4319	437.73	69.37	300	790	300	655	0.926	18.91
	No Accommodation	51850	507.39	58.02	300	790	300	742	0.936	14.70
	Accommodation	3153	429.32	69.21	300	790	300	642	0.922	19.31
	Am. Indian/AK Nat.	605	481.46	61.71	300	790	300	610	0.932	16.04
	Asian/Pac. Isl.	1776	511.07	59.93	300	790	300	673	0.939	14.81
	Black	3276	466.53	63.90	300	790	300	672	0.926	17.40
	Hispanic	12720	462.87	62.82	300	790	300	659	0.924	17.37
	White	36623	520.03	52.16	300	790	300	742	0.928	14.02
	Free Lunch Elig.	10895	459.82	63.33	300	790	300	659	0.922	17.70
	Reduced Lunch Elig.	3017	487.21	57.90	300	790	300	639	0.926	15.78
	Not FRL Elig.	41044	515.54	55.45	300	790	300	742	0.933	14.35
	Female	26997	499.82	57.78	300	790	300	671	0.934	14.86
	Male	28001	505.90	64.67	300	790	300	742	0.944	15.30
	Lang. Prof. NA	48691	510.05	57.17	300	790	300	742	0.935	14.61
	Lang. Prof. NEP	962	369.78	53.69	300	790	300	571	0.786	24.84
	Lang. Prof. LEP	2282	436.15	52.18	300	790	300	603	0.866	19.07
	Lang. Prof. FEP	3058	481.03	52.47	300	790	300	634	0.912	15.61
	Not Mig. or Immig.	53936	504.51	60.11	300	790	300	742	0.938	14.96
	Mig. or Immig.	1034	419.63	73.06	300	790	300	604	0.923	20.30

**Table 225. Subgroup Reliability for the CSAP Spanish Reading Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
3	No Disability	1469	521.76	44.06	300	740	300	669	0.872	15.75
	Disability	103	478.69	52.00	300	740	300	607	0.846	20.39
	No Accommodation	1221	524.80	43.26	300	740	300	669	0.873	15.41
	Accommodation	351	498.56	48.77	300	740	300	613	0.864	18.01
	Am. Indian/AK Nat.	1*	.	.	.	.	.	.	.	.
	Black	1*	.	.	.	.	.	.	.	.
	Hispanic	1557	518.79	45.88	300	740	300	669	0.877	16.06
	White	13*	.	.	.	.	.	.	.	.
	Free Lunch Elig.	1338	516.94	46.24	300	740	300	669	0.877	16.20
	Reduced Lunch Elig.	100	534.89	38.85	300	740	449	654	0.854	14.82
	Not FRL Elig.	134	526.99	43.87	300	740	387	627	0.877	15.36
	Female	789	525.31	44.69	300	740	300	654	0.872	15.98
	Male	783	512.53	46.16	300	740	300	669	0.878	16.15
	Lang. Prof. NA	7*	.	.	.	.	.	.	.	.
	Lang. Prof. NEP	985	505.58	45.15	300	740	300	627	0.863	16.70
	Lang. Prof. LEP	549	539.66	37.27	300	740	300	654	0.836	15.11
	Lang. Prof. FEP	31	568.74	33.72	300	740	500	669	.	.
	Not Mig. or Immig.	1133	518.49	45.58	300	740	300	669	0.872	16.29
	Mig. or Immig.	439	520.10	46.60	300	740	300	631	0.889	15.52
4	No Disability	261	524.50	39.50	300	790	397	644	0.915	11.53
	Disability	3*	.	.	.	.	.	.	.	.
	No Accommodation	192	522.44	39.87	300	790	397	644	0.914	11.67
	Accommodation	72	528.00	39.33	300	790	435	618	0.918	11.26
	Hispanic	262	523.98	39.87	300	790	397	644	0.916	11.56
	White	2*	.	.	.	.	.	.	.	.
	Free Lunch Elig.	213	525.15	40.08	300	790	397	644	0.918	11.48
	Reduced Lunch Elig.	11*	.	.	.	.	.	.	.	.
	Not FRL Elig.	39	520.15	36.27	300	790	426	605	0.897	11.65
	Female	119	527.30	39.69	300	790	442	623	0.915	11.54
	Male	145	521.21	39.68	300	790	397	644	0.915	11.54
	Lang. Prof. NA	1*	.	.	.	.	.	.	.	.
	Lang. Prof. NEP	220	520.28	38.21	300	790	397	618	0.907	11.68
	Lang. Prof. LEP	41	543.95	43.20	300	790	446	644	0.935	11.00
	Lang. Prof. FEP	2*	.	.	.	.	.	.	.	.
	Not Mig. or Immig.	111	521.77	40.80	300	790	426	623	0.920	11.56
	Mig. or Immig.	153	525.54	38.99	300	790	397	644	0.912	11.55

\*Statistics are not provided for groups consisting of fewer than 16 students.

**Table 226. Subgroup Reliability for the CSAP Spanish Writing Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
3	No Disability	1473	509.67	65.62	250	750	250	750	0.902	20.54
	Disability	105	441.30	65.42	250	750	259	600	0.899	20.81
	No Accommodation	1216	513.27	66.52	250	750	250	750	0.904	20.62
	Accommodation	362	477.74	64.75	250	750	250	660	0.905	20.01
	Am. Indian/AK Nat.	1*	.	.	.	.	.	.	.	.
	Black	1*	.	.	.	.	.	.	.	.
	Hispanic	1563	504.75	67.83	250	750	250	750	0.909	20.48
	White	13*	.	.	.	.	.	.	.	.
	Free Lunch Elig.	1340	503.17	67.55	250	750	250	750	0.909	20.37
	Reduced Lunch Elig.	101	525.30	63.15	250	750	387	701	0.893	20.62
	Not FRL Elig.	137	509.34	70.93	250	750	369	750	0.910	21.26
	Female	794	518.08	68.45	250	750	250	750	0.907	20.89
	Male	784	491.99	64.51	250	750	250	750	0.905	19.91
	Lang. Prof. NA	7*	.	.	.	.	.	.	.	.
	Lang. Prof. NEP	988	487.22	66.25	250	750	250	750	0.905	20.44
	Lang. Prof. LEP	550	533.10	59.44	250	750	304	750	0.872	21.25
	Lang. Prof. FEP	33	564.73	44.78	250	750	471	649	.	.
	Not Mig. or Immig.	1143	503.67	65.92	250	750	250	750	0.907	20.16
	Mig. or Immig.	435	508.92	72.34	250	750	250	750	0.914	21.16
4	No Disability	261	512.11	38.79	300	790	361	620	0.867	14.13
	Disability	3*	.	.	.	.	.	.	.	.
	No Accommodation	193	512.26	38.08	300	790	389	620	0.864	14.03
	Accommodation	71	509.66	41.38	300	790	361	606	0.883	14.15
	Hispanic	262	511.47	39.06	300	790	361	620	0.870	14.08
	White	2*	.	.	.	.	.	.	.	.
	Free Lunch Elig.	213	513.39	39.79	300	790	361	620	0.878	13.92
	Reduced Lunch Elig.	11*	.	.	.	.	.	.	.	.
	Not FRL Elig.	39	506.49	30.44	300	790	389	568	0.754	15.09
	Female	120	517.29	37.34	300	790	427	606	0.865	13.71
	Male	144	506.79	39.71	300	790	361	620	0.868	14.41
	Lang. Prof. NA	1*	.	.	.	.	.	.	.	.
	Lang. Prof. NEP	220	507.01	37.23	300	790	361	606	0.856	14.13
	Lang. Prof. LEP	41	536.39	39.96	300	790	443	620	.	.
	Lang. Prof. FEP	2*	.	.	.	.	.	.	.	.
	Not Mig. or Immig.	111	509.10	37.24	300	790	389	589	0.862	13.81
	Mig. or Immig.	153	513.35	40.14	300	790	361	620	0.874	14.24

\*Statistics are not provided for groups consisting of fewer than 16 students.

**Table 227. Scale Scores by Accommodation and Disability Classification**

Content Area	Grade	Disability	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Reading	3	No Disability	43025	574.11	66.69	7527	512.97	79.83
		Disability	1803	512.02	100.94	3831	450.30	109.28
	4	No Disability	43006	601.23	55.41	7542	545.76	70.13
		Disability	1645	547.47	86.08	4037	491.11	94.09
	5	No Disability	43936	626.77	56.88	6935	572.77	69.81
		Disability	1612	568.78	79.38	4208	521.07	83.71
	6	No Disability	45671	637.49	57.59	4993	585.94	78.22
		Disability	1686	570.70	90.89	3962	535.08	93.67
	7	No Disability	48098	649.06	57.66	3250	579.06	80.67
		Disability	2238	571.12	82.37	3169	540.24	88.22
Writing	8	No Disability	49745	656.82	53.76	2818	598.98	68.00
		Disability	2134	586.89	65.82	2901	562.90	69.81
	9	No Disability	53066	667.15	48.33	1519	601.32	64.61
		Disability	2449	602.74	63.68	2475	587.64	67.33
	10	No Disability	49443	690.35	51.43	970	628.01	69.49
		Disability	2154	619.98	70.85	2101	608.23	70.11
	3	No Disability	43844	479.18	44.92	6755	438.31	45.25
		Disability	1661	445.25	52.02	3982	412.62	50.08
	4	No Disability	42819	494.09	47.77	7730	454.90	46.69
		Disability	1454	457.13	48.64	4230	428.62	42.74
	5	No Disability	43768	518.59	50.21	7086	478.31	52.95
		Disability	1441	473.31	51.10	4393	445.47	43.95
	6	No Disability	46181	538.76	56.45	4520	486.25	66.07
		Disability	1577	484.01	57.47	4094	452.81	53.00
	7	No Disability	48106	568.71	65.32	3234	502.68	68.81
		Disability	1992	495.70	59.04	3427	471.34	56.34
	8	No Disability	49657	569.37	68.02	2923	499.29	76.17
		Disability	1879	491.33	61.80	3166	466.13	57.74
	9	No Disability	52965	573.89	72.52	1617	483.52	76.78
		Disability	2326	485.84	64.88	2594	470.21	57.90
	10	No Disability	49384	589.40	77.33	1017	504.54	86.46
		Disability	2095	496.50	69.17	2159	479.48	63.77



**Table 227. Scale Scores by Accommodation and Disability Classification (Concluded)**

Content Area	Grade	Disability	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Mathematics	3	No Disability	44846	474.06	79.18	7263	404.10	73.83
		Disability	1794	428.49	89.31	3998	368.73	78.55
	4	No Disability	44483	508.07	69.83	6368	441.91	70.45
		Disability	1613	463.95	82.10	4132	400.44	77.84
	5	No Disability	44841	535.69	70.36	6023	473.79	73.44
		Disability	1633	479.54	83.25	4205	425.92	74.01
	6	No Disability	46673	550.80	68.75	4081	487.38	73.99
		Disability	1774	487.48	82.10	3915	444.80	76.90
	7	No Disability	48384	568.64	63.03	3025	509.00	68.06
		Disability	2050	503.05	74.23	3380	463.74	75.06
Science	5	No Disability	49646	575.70	58.91	2941	527.55	67.95
		Disability	1939	506.38	70.15	3086	476.71	72.05
	9	No Disability	53142	579.70	66.66	1678	507.00	83.29
		Disability	2318	491.79	78.93	2666	479.30	78.60
	10	No Disability	49541	594.56	67.32	1110	530.72	81.90
		Disability	2065	513.09	76.27	2224	493.01	74.63
	5	No Disability	46033	564.10	51.41	4859	507.89	57.96
		Disability	1742	527.93	62.88	4088	495.86	58.91
	8	No Disability	50277	511.98	55.21	2296	447.56	63.93
		Disability	2110	453.02	64.92	2938	424.64	63.39
Spanish Reading	10	No Disability	49678	510.02	55.97	978	429.79	73.09
		Disability	2144	446.47	70.25	2175	429.11	67.40
	3	No Disability	1183	525.94	42.50	286	504.48	46.21
		Disability	38	489.29	51.83	65	472.49	51.48
Spanish Writing	4	No Disability	191	522.59	39.92	70	529.71	38.11
		Disability	1*	.	.	2*	.	.
	3	No Disability	1176	515.43	65.04	297	486.87	63.03
		Disability	40	449.83	78.55	65	436.05	55.87
	4	No Disability	192	512.41	38.13	69	511.28	40.85
		Disability	1*	.	.	2*	.	.

\*Statistics are not provided for groups consisting of fewer than 16 students.

**Table 228. Overall Estimates of Standard Error of Measurement**

Content Area	Grade	Standard Error of Measurement
Reading	3	28.92
Reading	4	18.13
Reading	5	17.92
Reading	6	19.09
Reading	7	18.73
Reading	8	16.72
Reading	9	14.79
Reading	10	15.21
Spanish Reading	3	16.47
Spanish Reading	4	11.51
Writing	3	14.73
Writing	4	14.78
Writing	5	16.56
Writing	6	19.34
Writing	7	21.18
Writing	8	22.06
Writing	9	22.37
Writing	10	23.37
Spanish Writing	3	20.94
Spanish Writing	4	14.34
Mathematics	3	27.30
Mathematics	4	19.83
Mathematics	5	18.90
Mathematics	6	18.88
Mathematics	7	18.41
Mathematics	8	17.15
Mathematics	9	19.81
Mathematics	10	19.45
Science	5	16.06
Science	8	16.98
Science	10	15.31

**Table 229. Reading Scale Scores and Associated Standard Errors**

RD 3		RD 4		RD 5		RD 6		RD 7		RD 8		RD 9		RD 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	200														
175	178	180	180												
200	158	200	160	220	164										
225	140	225	137	225	159										
250	122	250	116	250	136	260	172								
275	105	275	97	275	115	275	157								
300	89	300	80	300	97	300	132	300	147						
325	73	325	66	325	80	325	111	325	126	330	121				
350	58	350	53	350	66	350	92	350	107	350	104	350	138	370	166
375	45	375	42	375	53	375	76	375	89	375	85	375	114	375	161
400	35	400	34	400	43	400	62	400	72	400	69	400	93	400	136
425	27	425	27	425	34	425	49	425	57	425	56	425	76	425	111
450	23	450	22	450	28	450	39	450	44	450	45	450	61	450	89
475	20	475	19	475	23	475	31	475	33	475	35	475	48	475	69
500	19	500	16	500	19	500	25	500	26	500	27	500	37	500	53
525	20	525	14	525	16	525	20	525	20	525	21	525	27	525	39
550	21	550	13	550	15	550	16	550	17	550	17	550	20	550	28
575	22	575	13	575	14	575	14	575	15	575	14	575	14	575	20
600	24	600	14	600	13	600	13	600	13	600	13	600	12	600	15
625	26	625	15	625	14	625	13	625	13	625	13	625	11	625	12
650	29	650	17	650	15	650	13	650	14	650	13	650	11	650	11
675	35	675	19	675	16	675	15	675	14	675	13	675	11	675	10
700	42	700	21	700	19	700	16	700	15	700	14	700	12	700	11
725	51	725	23	725	23	725	17	725	17	725	15	725	12	725	11
750	62	750	27	750	27	750	20	750	20	750	18	750	14	750	13
775	74	775	34	775	32	775	24	775	25	775	22	775	18	775	16
795	84	800	41	800	38	800	30	800	31	800	27	800	25	800	20
		825	48	825	46	825	37	825	38	825	32	825	32	825	25
		850	56	850	56	850	45	850	46	850	39	850	41	850	30
		875	65	875	69	875	54	875	55	875	48	875	52	875	37
		900	75	900	82	900	65	900	65	900	59	900	64	900	44
		925	85	925	98	925	79	925	76	925	72	925	79	925	54
		940	92	950	115	950	94	950	88	950	88	950	97	950	64
				955	119	970	108	975	102	975	107	975	119	975	77
								980	105	990	120	995	138	999	90

**Table 230. Writing Scale Scores and Associated Standard Errors**

WR 3		WR 4		WR 5		WR 6		WR 7		WR 8		WR 9		WR 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	163														
175	138	190	81												
200	113	200	74	220	65										
225	88	225	58	225	62	230	51	240	52						
250	63	250	44	250	49	250	43	250	48	250	47	260	46	270	42
275	43	275	33	275	38	275	36	275	42	275	41	275	42	275	40
300	29	300	26	300	29	300	31	300	37	300	37	300	36	300	35
325	20	325	21	325	24	325	27	325	33	325	33	325	33	325	33
350	15	350	18	350	21	350	24	350	30	350	30	350	31	350	31
375	12	375	15	375	18	375	22	375	27	375	26	375	28	375	29
400	11	400	12	400	16	400	20	400	23	400	24	400	25	400	26
425	11	425	11	425	14	425	18	425	20	425	21	425	23	425	23
450	12	450	11	450	13	450	16	450	18	450	19	450	20	450	20
475	14	475	12	475	13	475	15	475	16	475	17	475	17	475	18
500	17	500	15	500	14	500	15	500	15	500	17	500	16	500	17
525	21	525	18	525	16	525	16	525	16	525	17	525	16	525	17
550	23	550	22	550	18	550	17	550	17	550	18	550	17	550	18
575	26	575	25	575	21	575	19	575	20	575	19	575	19	575	20
600	31	600	29	600	24	600	22	600	22	600	22	600	20	600	21
625	41	625	35	625	28	625	24	625	24	625	24	625	23	625	23
650	59	650	42	650	33	650	27	650	26	650	27	650	25	650	24
675	84	675	50	675	39	675	31	675	29	675	30	675	27	675	26
680	89	700	60	700	47	700	35	700	33	700	34	700	30	700	27
		725	72	725	56	725	42	725	36	725	38	725	33	725	29
		730	74	750	69	750	49	750	40	750	43	750	37	750	33
				775	84	775	58	775	45	775	50	775	42	775	37
				780	87	800	69	800	51	800	58	800	49	800	44
						825	83	825	59	825	67	825	58	825	52
						840	92	850	68	850	79	850	69	850	61
								875	80	875	92	875	81	875	72
								890	88	900	108	900	96	900	84
										910	115	925	113	925	98
												930	117	950	113

**Table 231. Spanish Reading and Writing Scale Scores and Associated Standard Errors**

SP RD 3		SP RD 4			Sp WR 3		SP WR 4	
SS	SE	SS	SE		SS	SE	SS	SE
					250 58			
					275 46			
300 139		300 101			300 36		300 62	
325 107		325 80			325 29		325 47	
350 80		350 62			350 23		350 36	
375 58		375 48			375 19		375 28	
400 40		400 35			400 17		400 22	
425 27		425 25			425 16		425 19	
450 17		450 18			450 17		450 17	
475 13		475 13			475 17		475 15	
500 12		500 10			500 19		500 13	
525 12		525 9			525 20		525 11	
550 13		550 9			550 22		550 11	
575 16		575 10			575 24		575 12	
600 19		600 12			600 25		600 15	
625 24		625 15			625 30		625 20	
650 32		650 22			650 38		650 26	
675 43		675 30			675 48		675 32	
700 57		700 38			700 61		700 41	
725 73		725 48			725 77		725 51	
740 84		750 58			750 96		750 63	
		775 69					775 78	
		790 76					790 88	

**Table 232. Mathematics Scale Scores and Associated Standard Errors**

MA 3		MA 4		MA 5		MA 6		MA 7		MA 8		MA 9		MA 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	62														
175	53	180	50												
200	46	200	43	220	56										
225	40	225	37	225	54	240	57								
250	34	250	31	250	46	250	53								
275	29	275	27	275	38	275	45	280	77						
300	26	300	24	300	32	300	39	300	68	310	99				
325	23	325	21	325	28	325	34	325	59	325	87	340	78		
350	22	350	19	350	24	350	30	350	51	350	69	350	72	370	62
375	21	375	18	375	21	375	26	375	43	375	55	375	60	375	60
400	21	400	17	400	19	400	23	400	37	400	43	400	50	400	51
425	22	425	16	425	16	425	21	425	31	425	34	425	41	425	44
450	22	450	15	450	15	450	19	450	26	450	28	450	35	450	38
475	24	475	15	475	14	475	17	475	21	475	22	475	30	475	33
500	26	500	16	500	14	500	15	500	18	500	18	500	25	500	28
525	30	525	17	525	15	525	14	525	15	525	15	525	21	525	24
550	34	550	19	550	16	550	14	550	14	550	13	550	18	550	20
575	40	575	23	575	18	575	15	575	13	575	12	575	15	575	16
600	47	600	28	600	21	600	16	600	12	600	12	600	13	600	14
625	57	625	34	625	24	625	18	625	13	625	11	625	11	625	12
650	70	650	41	650	29	650	22	650	14	650	11	650	11	650	11
675	86	675	49	675	35	675	27	675	17	675	12	675	12	675	11
700	106	700	58	700	42	700	33	700	22	700	14	700	13	700	12
		725	69	725	50	725	41	725	28	725	20	725	16	725	14
		750	80	750	60	750	50	750	36	750	28	750	20	750	16
		775	93	775	73	775	60	775	45	775	39	775	26	775	21
		780	96	800	88	800	72	800	55	800	53	800	34	800	28
						825	86	825	67	825	69	825	44	825	37
						830	89	850	81	850	88	850	56	850	49
								860	87	875	111	875	69	875	63
										890	126	900	85	900	79
												920	99	925	98
														950	121

**Table 233. Science Scale Scores and Associated Standard Errors**

SC 5		SC 8		SC 10	
SS	SE	SS	SE	SS	SE
300	49	300	47	300	52
325	40	325	37	325	41
350	32	350	29	350	32
375	26	375	24	375	25
400	22	400	20	400	20
425	19	425	17	425	17
450	17	450	15	450	14
475	15	475	14	475	13
500	13	500	13	500	12
525	12	525	13	525	11
550	13	550	12	550	11
575	14	575	12	575	12
600	16	600	13	600	13
625	19	625	15	625	15
650	23	650	18	650	19
675	28	675	22	675	24
700	34	700	28	700	32
725	41	725	35	725	40
750	50	750	44	750	50
775	61	775	54	775	62
790	69	790	61	790	70

**Table 234. Cut Scores for the 2007 CSAP Tests**

<b>Language</b>	<b>Content Area</b>	<b>Grade</b>	<b>Unsatisfactory</b>	<b>Partially Proficient</b>	<b>Proficient</b>	<b>Advanced</b>
English	Reading	3	150-465	466-525	526-655	656-795
English	Reading	4	180-516	517-571	572-670	671-940
English	Reading	5	220-537	538-587	588-690	691-955
English	Reading	6	260-542	543-599	600-695	696-970
English	Reading	7	300-566	567-619	620-715	716-980
English	Reading	8	330-577	578-631	632-723	724-990
English	Reading	9	350-584	585-641	642-738	739-995
English	Reading	10	370-606	607-662	663-746	747-999
Spanish	Reading	3	300-481	482-512	513-575	576-740
Spanish	Reading	4	300-505	506-536	537-591	592-790
English	Writing	3	150-392	393-464	465-532	533-680
English	Writing	4	190-413	414-484	485-553	554-730
English	Writing	5	220-417	418-497	498-575	576-780
English	Writing	6	230-422	423-512	513-599	600-840
English	Writing	7	240-429	430-538	539-628	629-890
English	Writing	8	250-433	434-555	556-650	651-910
English	Writing	9	260-435	436-562	563-671	672-930
English	Writing	10	270-458	459-577	578-689	690-950
Spanish	Writing	3	250-447	448-498	499-574	575-750
Spanish	Writing	4	300-495	496-531	532-595	596-790
English	Mathematics	3	150-334	335-418	419-509	510-700
English	Mathematics	4	180-382	383-454	455-537	538-780
English	Mathematics	5	220-421	422-493	494-561	562-800
English	Mathematics	6	240-453	454-519	520-588	589-830
English	Mathematics	7	280-486	487-558	559-613	614-860
English	Mathematics	8	310-520	521-576	577-627	628-890
English	Mathematics	9	340-547	548-601	602-651	652-920
English	Mathematics	10	370-561	562-626	627-691	692-950
English	Science	5	300-506	507-568	569-613	614-790
English	Science	8	300-455	456-505	506-581	582-790
English	Science	10	300-471	472-512	513-590	591-790



**Table 235. Alignment Summary, Reading & Writing**

<b>Grade</b>	<b>Score Reporting Category (SRC)</b>	<b>Number of items in the SRC</b>	<b>Number of PI</b>	<b>Number of PI Assessed</b>	<b>% of PI Assessed</b>
3	1	40	7	6	86%
	2	21	4	2	50%
	3	32	6	5	83%
4	1	29	8	6	75%
	2	21	5	4	80%
	3	32	5	5	100%
	4	12	5	5	100%
	5	17	6	5	83%
	6	12	4	3	75%
5	1	23	7	5	71%
	2	21	7	7	100%
	3	32	5	5	100%
	4	20	5	5	100%
	5	15	7	5	71%
	6	12	4	2	50%
6	1	22	7	5	71%
	2	21	7	6	86%
	3	32	5	5	100%
	4	19	5	5	100%
	5	15	7	6	86%
	6	14	4	3	75%
7	1	21	9	4	44%
	2	21	8	7	88%
	3	32	6	5	83%
	4	18	5	3	60%
	5	17	7	6	86%
	6	14	4	3	75%
8	1	24	7	6	86%
	2	21	7	6	86%
	3	32	6	5	83%
	4	15	5	4	80%
	5	15	6	4	67%
	6	16	4	4	100%
9	1	21	7	6	86%
	2	21	8	6	75%
	3	32	6	5	83%
	4	15	5	3	60%
	5	19	6	6	100%
	6	15	5	3	60%
10	1	21	7	6	86%
	2	21	9	6	67%
	3	32	5	5	100%
	4	14	6	4	67%
	5	19	6	5	83%
	6	16	4	3	75%

**Table 236. Alignment Summary, Mathematics**

<b>Grade</b>	<b>Score Reporting Category (SRC)</b>	<b>Number of items in the SRC</b>	<b>Number of PI</b>	<b>Number of PI Assessed</b>	<b>% of PI Assessed</b>
3	1	8	13	7	54%
	2/3	11	10	7	70%
	4/5	14	15	11	73%
	6	7	9	6	67%
4	1	12	11	7	64%
	2	11	6	5	83%
	3	11	6	6	100%
	4/5	21	15	12	80%
	6	14	10	4	40%
5	1	16	13	11	85%
	2	12	7	6	86%
	3	11	15	7	47%
	4/5	15	24	13	54%
	6	15	12	7	58%
6	1	12	8	7	88%
	2	10	6	3	50%
	3	11	9	7	78%
	4/5	16	17	10	59%
	6	11	8	5	63%
7	1/6	19	18	11	61%
	2	12	5	4	80%
	3	12	9	8	89%
	4/5	17	14	11	79%
8	1/6	15	10	7	70%
	2	15	6	5	83%
	3	12	9	6	67%
	4/5	18	11	9	82%
9	1/6	14	9	7	78%
	2	17	12	11	92%
	3	15	14	13	93%
	4/5	14	9	9	100%
10	1/6	14	11	8	73%
	2	17	14	12	86%
	3	15	22	14	64%
	4/5	14	17	12	71%

**Table 237. Alignment Summary, Science**

<b>Grade</b>	<b>Score Reporting Category (SRC)</b>	<b>Number of items in the SRC</b>	<b>Number of PI</b>	<b>Number of PI Assessed</b>	<b>% of PI Assessed</b>
5	1/6	32	9	4	44%
	2/5	15	13	7	54%
	3/5	14	17	9	53%
	4/5	14	20	9	45%
8	1/6	33	16	8	50%
	2/5	16	15	9	60%
	3/5	17	22	12	55%
	4/5	17	19	9	47%
10	1/6	32	17	8	47%
	2/5	17	14	8	57%
	3/5	16	27	8	30%
	4/5	18	23	11	48%

**Table 238. Alignment Summary, Spanish Reading & Writing**

<b>Grade</b>	<b>Score Reporting Category (SRC)</b>	<b>Number of items in the SRC</b>	<b>Number of PI</b>	<b>Number of PI Assessed</b>	<b>% of PI Assessed</b>
3	1	40	7	5	71%
	2	21	4	1	25%
	3	32	5	5	100%
4	1	31	8	6	75%
	2	19	5	4	80%
	3	34	5	4	80%
	4	14	5	5	100%
	5	13	6	3	50%
	6	12	4	4	100%

**Table 239. Items Flagged for DIF by Ethnicity Focal Group**

Content Area	Grade	Item #	Item Type	Ethnicity Focal Group <sup>1</sup>								
				Asian			Black			Hispanic		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	4	69	CR	+	2060	0.111	.	.	.	+	16324	0.101
	8	2	CR	.	.	.	+	3552	0.102	.	.	.
		27	MC	.	.	.	.	.	.	*	15186	-0.109
		29	MC	.	.	.	.	.	.	*	15186	-0.101
		60	CR	.	.	.	+	3552	0.117	.	.	.
	9	6	CR	+	1857	0.104	.	.	.	.	.	.
	10	1	MC	*	1779	-0.110	.	.	.	.	.	.
		27	CR	*	1779	-0.183	.	.	.	.	.	.
Reading	3	12	CR	+	2068	0.130	.	.	.	.	.	.
		15	CR	.	.	.	.	.	.	+	15677	0.106
	4	45	CR	.	.	.	*	3226	-0.132	.	.	.
		63	CR	+	2058	0.112	.	.	.	.	.	.
	5	22	CR	+	1966	0.118	.	.	.	.	.	.
		24	CR	+	1966	0.123	.	.	.	.	.	.
		53	CR	+	1966	0.109	.	.	.	.	.	.
		54	CR	+	1966	0.175	.	.	.	.	.	.
	6	26	CR	.	.	.	.	.	.	+	15352	0.108
		36	CR	+	1983	0.124	+	3353	0.160	.	.	.
		64	CR	+	1983	0.226	.	.	.	.	.	.
	7	2	CR	+	1841	0.124	.	.	.	.	.	.
		11	CR	+	1841	0.116	.	.	.	.	.	.
		38	CR	+	1841	0.201	.	.	.	.	.	.
		48	CR	*	1841	-0.106	.	.	.	.	.	.
	8	10	CR	.	.	.	.	.	.	+	15145	0.105
		24	CR	+	1732	0.135	.	.	.	.	.	.
		26	CR	.	.	.	+	3562	0.121	.	.	.
		62	CR	+	1732	0.110	.	.	.	.	.	.
		65	CR	+	1732	0.117	.	.	.	+	15145	0.104
	9	2	CR	.	.	.	+	3654	0.136	.	.	.
		10	CR	.	.	.	.	.	.	+	15178	0.100
		41	CR	+	1851	0.124	.	.	.	.	.	.
		44	CR	+	1851	0.127	.	.	.	.	.	.
		55	CR	+	1851	0.106	+	3654	0.108	.	.	.
		59	CR	+	1851	0.133	.	.	.	.	.	.
		61	CR	+	1851	0.121	.	.	.	.	.	.
	10	7	CR	+	1769	0.119	.	.	.	.	.	.
		11	CR	+	1769	0.113	+	3233	0.132	+	12577	0.115
		27	CR	+	1769	0.129	.	.	.	.	.	.
		29	CR	+	1769	0.144	.	.	.	.	.	.
		35	CR	*	1769	-0.110	.	.	.	.	.	.
		46	CR	+	1769	0.110	.	.	.	.	.	.

1. Flag + = favoring and \* = disfavoring

**Table 239. Items Flagged for DIF by Ethnicity Focal Group (Concluded)**

Content Area	Grade	Item #	Item Type	Ethnicity Focal Group <sup>1</sup>								
				Asian			Black			Hispanic		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Science	8	22	CR	+	1736	0.167	.	.	.	.	.	.
		41	CR	+	1736	0.120	.	.	.	.	.	.
		78	CR	+	1736	0.111	.	.	.	.	.	.
	10	22	CR	+	1776	0.193	.	.	.	+	12720	0.150
		71	CR	*	1776	-0.116	.	.	.	.	.	.
Writing	3	10	MC	*	2070	-0.102	.	.	.	.	.	.
	7	5	CR	*	1837	-0.156	.	.	.	.	.	.
	8	6	CR	+	1733	0.101	.	.	.	.	.	.
		44	MC	*	1733	-0.118	.	.	.	.	.	.
	9	5	CR	*	1849	-0.132	.	.	.	.	.	.
		52	CR	+	1849	0.101	.	.	.	+	15172	0.105
		53	CR	+	1849	0.110	.	.	.	+	15172	0.101
	10	29	MC	*	1768	-0.123	.	.	.	.	.	.
		30	MC	*	1768	-0.104	.	.	.	.	.	.
		33	CR	.	.	.	.	.	.	+	12566	0.137
		53	CR	+	1768	0.127	.	.	.	.	.	.

1. Flag + = favoring and \* = disfavoring

**Table 240. Items Flagged for DIF by Gender Focal Group,**

Content Area	Grade	Item #	Item Type	Gender Focal Group <sup>1</sup>					
				Female			Male		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	7	60	CR	+	27734	0.132	*	29095	-0.128
	9	40	CR	+	29279	0.162	*	30537	-0.137
Reading	3	15	CR	+	27525	0.106	*	28656	-0.104
	8	65	CR	+	28116	0.104	.	.	.
		7	CR	+	26874	0.118	*	27817	-0.116
		11	CR	+	26874	0.123	*	27817	-0.125
Science	10	29	CR	+	26874	0.117	*	27817	-0.121
		22	CR	+	28121	0.103	.	.	.
		22	CR	+	26997	0.110	.	.	.
Writing	4	25	CR	.	.	.	*	28601	-0.101
	6	31	CR	+	27435	0.137	*	28933	-0.131
	7	21	CR	+	27700	0.129	*	29051	-0.137
	8	28	CR	+	28121	0.114	*	29495	-0.115
		53	CR	+	28121	0.116	*	29495	-0.117
	9	52	CR	+	29152	0.148	*	30339	-0.140
		53	CR	+	29152	0.105	*	30339	-0.115
	10	33	CR	+	26842	0.164	*	27818	-0.166

1. Flag + = favoring and \* = disfavoring

**Table 241. Items Flagged for DIF by Accommodations Focal Group**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>									Teacher Read Directions		
				Extended Timing			Oral Test			Scribe					
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	3	10	CR	.	.	.	+	5818	0.119	.	.	.	.	.	.
		20	CR	.	.	.	.	.	.	+	639	0.223	.	.	.
		26	MC	.	.	.	.	.	.	+	639	0.103	.	.	.
		31	CR	.	.	.	.	.	.	+	639	0.130	.	.	.
		32	MC	.	.	.	*	5818	-0.112	*	639	-0.116	.	.	.
		38	CR	.	.	.	+	5818	0.187	+	639	0.185	.	.	.
	4	23	CR	.	.	.	.	.	.	+	641	0.106	.	.	.
		27	CR	.	.	.	+	4924	0.157	+	641	0.124	.	.	.
		30	CR	.	.	.	.	.	.	+	641	0.116	.	.	.
		37	MC	.	.	.	.	.	.	*	641	-0.120	.	.	.
		46	CR	.	.	.	+	4924	0.141	+	641	0.152	.	.	.
		56	CR	.	.	.	.	.	.	+	641	0.283	.	.	.
	5	3	CR	.	.	.	+	4372	0.116	.	.	.	.	.	.
		9	CR	.	.	.	.	.	.	+	523	0.125	.	.	.
		12	CR	.	.	.	+	4372	0.211	+	523	0.175	.	.	.
		32	MC	.	.	.	.	.	.	+	523	0.111	.	.	.
		44	CR	.	.	.	.	.	.	*	523	-0.113	.	.	.
		46	CR	.	.	.	+	4372	0.132	+	523	0.254	.	.	.
		54	CR	.	.	.	*	4372	-0.130	+	523	0.231	.	.	.
		57	CR	.	.	.	.	.	.	*	523	-0.100	.	.	.
	6	8	CR	.	.	.	+	2999	0.105	.	.	.	.	.	.
		20	CR	.	.	.	+	2999	0.121	+	403	0.166	.	.	.
		30	CR	.	.	.	.	.	.	*	403	-0.130	.	.	.
		33	CR	.	.	.	.	.	.	*	403	-0.121	.	.	.
		35	MC	.	.	.	.	.	.	*	403	-0.104	.	.	.
		37	CR	.	.	.	.	.	.	+	403	0.158	.	.	.
		44	CR	.	.	.	*	2999	-0.128	.	.	.	.	.	.
		48	CR	.	.	.	+	2999	0.172	+	403	0.111	+	1105	0.143
		51	CR	.	.	.	.	.	.	*	403	-0.108	.	.	.
		60	CR	.	.	.	.	.	.	*	403	-0.175	*	1105	-0.107
	7	43	CR	.	.	.	*	2279	-0.109	.	.	.	.	.	.
		53	CR	.	.	.	+	2279	0.129	.	.	.	+	1047	0.115
		60	CR	.	.	.	.	.	.	*	287	-0.251	*	1047	-0.142
	8	2	CR	.	.	.	.	.	.	*	214	-0.154	.	.	.
		10	CR	.	.	.	.	.	.	+	214	0.163	.	.	.
		20	CR	.	.	.	.	.	.	+	214	0.174	.	.	.
		27	MC	*	2694	-0.101	*	2197	-0.121	.	.	.	*	837	-0.107
		29	MC	.	.	.	*	2197	-0.126	.	.	.	*	837	-0.143
		40	CR	.	.	.	+	2197	0.101	+	214	0.254	.	.	.
		51	MC	.	.	.	+	2197	0.113	.	.	.	+	837	0.118
		53	CR	.	.	.	.	.	.	.	.	.	*	837	-0.122
		60	CR	.	.	.	.	.	.	*	214	-0.160	.	.	.
	9	2	MC	.	.	.	+	945	0.118	.	.	.	.	.	.
		4	MC	.	.	.	.	.	.	+	116	0.131	.	.	.
		40	CR	*	2514	-0.115	.	.	.	*	116	-0.249	*	711	-0.108
		47	MC	.	.	.	*	945	-0.102	.	.	.	.	.	.
		54	CR	*	2514	-0.102	*	945	-0.113	.	.	.	.	.	.
	10	12	CR	.	.	.	.	.	.	.	.	.	+	511	0.101
		14	MC	.	.	.	+	692	0.146	.	.	.	+	511	0.148
		15	CR	.	.	.	.	.	.	.	.	.	*	511	-0.115
		26	MC	.	.	.	.	.	.	.	.	.	+	511	0.110
		37	MC	.	.	.	.	.	.	+	86	0.147	.	.	.

1. Flag + = favoring and \* = disfavoring

**Table 241. Items Flagged for DIF by Accommodations Focal Group (Continued)**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>									Teacher Read Directions		
				Extended Timing			Oral Test			Scribe					
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	4	27	CR	.	.	.	.	.	.	+	983	0.105	.	.	.
		37	CR	.	.	.	.	.	.	+	983	0.125	.	.	.
		45	CR	.	.	.	.	.	.	+	983	0.150	.	.	.
		63	CR	.	.	.	.	.	.	+	983	0.188	.	.	.
	5	5	CR	.	.	.	.	.	.	*	866	-0.101	.	.	.
		14	CR	.	.	.	.	.	.	+	866	0.122	.	.	.
	6	26	CR	.	.	.	.	.	.	*	554	-0.116	.	.	.
		34	CR	.	.	.	.	.	.	*	554	-0.110	.	.	.
		36	CR	.	.	.	.	.	.	.	.	.	*	2414	-0.100
		50	MC	.	.	.	.	.	.	+	554	0.102	.	.	.
		52	CR	.	.	.	.	.	.	+	554	0.232	.	.	.
	7	5	MC	.	.	.	.	.	.	+	401	0.111	.	.	.
		16	CR	.	.	.	.	.	.	+	401	0.191	.	.	.
		29	CR	.	.	.	.	.	.	*	401	-0.101	.	2091	-0.128
		37	CR	.	.	.	.	.	.	+	401	0.105	.	.	.
		38	CR	.	.	.	.	.	.	*	401	-0.121	.	.	.
	8	2	MC	.	.	.	.	.	.	*	302	-0.120	.	.	.
		10	CR	.	.	.	.	.	.	*	302	-0.289	.	.	.
		24	CR	.	.	.	.	.	.	+	302	0.131	.	.	.
		26	CR	.	.	.	.	.	.	.	.	.	*	1865	-0.123
		35	CR	.	.	.	.	.	.	+	302	0.133	+	1865	0.125
		65	CR	+	3433	0.153	.	.	.	.	.	.	+	1865	0.234
	9	2	CR	*	2655	-0.127	.	.	.	.	.	.	.	.	.
		10	CR	.	.	.	.	.	.	*	145	-0.244	.	.	.
		20	MC	.	.	.	.	.	.	*	145	-0.104	.	.	.
		22	CR	.	.	.	.	.	.	*	145	-0.183	.	.	.
		32	MC	.	.	.	.	.	.	*	145	-0.118	.	.	.
		56	MC	.	.	.	.	.	.	*	145	-0.202	.	.	.
		66	MC	.	.	.	.	.	.	+	145	0.157	.	.	.
		67	MC	.	.	.	.	.	.	.	.	.	+	1129	0.107
	10	47	CR	.	.	.	.	.	.	+	108	0.271	.	.	.
		58	MC	.	.	.	.	.	.	+	108	0.122	.	.	.
		69	MC	.	.	.	.	.	.	+	108	0.127	.	.	.
Science	5	7	MC	.	.	.	.	.	.	*	620	-0.104	.	.	.
		8	MC	.	.	.	.	.	.	*	620	-0.120	.	.	.
		25	CR	.	.	.	.	.	.	+	620	0.178	.	.	.
		45	CR	.	.	.	.	.	.	+	620	0.134	.	.	.
		53	CR	.	.	.	.	.	.	+	620	0.116	.	.	.
		55	CR	.	.	.	.	.	.	+	620	0.108	.	.	.
		58	CR	.	.	.	.	.	.	+	620	0.115	.	.	.
		65	MC	.	.	.	+	4230	0.113	.	.	.	.	.	.
		68	CR	.	.	.	.	.	.	+	620	0.105	.	.	.
		73	MC	.	.	.	.	.	.	*	620	-0.137	.	.	.

1. Flag + = favoring and \* = disfavoring

Table 241. Items Flagged for DIF by Accommodations Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>													
				Extended Timing			Oral Test			Scribe			Teacher Read Directions				
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd		
Science	8	2	CR	.	.	.	.	.	.	.	+	253	0.104	.	.	.	
		15	MC	.	.	.	.	.	.	.	*	253	-0.139	.	.	.	
		22	CR	.	.	.	.	.	2228	-0.104	*	253	-0.635	.	.	.	
		39	CR	.	.	.	.	.	2228	-0.144	*	253	-0.159	*	809	-0.111	
		41	CR	.	.	.	.	.	2228	0.115	.	.	.	.	.	.	
		66	CR	.	.	.	.	.	2228	-0.109	.	.	.	.	.	.	
	10	10	MC	.	.	.	.	.	.	.	.	+	90	0.146	.	.	.
		22	CR	*	1772	-0.169	*	730	-0.173	*	90	-0.462	.	.	.	.	.
		23	CR	*	1772	-0.126	*	730	-0.104	.	.	.	*	505	-0.114	.	.
		35	CR	*	1772	-0.115	*	730	-0.139	.	.	.	.	.	.	.	.
		40	CR	.	.	.	.	.	730	-0.136	.	.	.	.	.	.	.
		53	CR	.	.	.	.	.	.	.	*	90	-0.146	.	.	.	.
		68	MC	.	.	.	.	.	.	.	+	90	0.127	.	.	.	.
		83	CR	.	.	.	.	.	730	-0.101	.	.	.	.	.	.	.
Writing	3	3	CR	.	.	.	.	.	.	.	*	980	-0.107	.	.	.	
		5	CR	.	.	.	.	.	4294	-0.110	*	980	-0.219	.	.	.	
		6	CR	.	.	.	.	.	.	.	*	980	-0.119	.	.	.	
		9	MC	.	.	.	.	.	4294	0.122	+	980	0.137	.	.	.	
		10	MC	.	.	.	.	.	.	.	*	980	-0.121	.	.	.	
		22	CR	.	.	.	.	.	.	.	+	980	0.166	.	.	.	
		39	CR	.	.	.	.	.	.	.	+	980	0.157	.	.	.	
		40	MC	.	.	.	.	.	.	.	*	980	-0.100	.	.	.	
		42	MC	.	.	.	.	.	.	.	*	980	-0.142	.	.	.	
		52	CR	.	.	.	.	.	.	.	+	980	0.127	.	.	.	
		53	CR	.	.	.	.	.	.	.	+	980	0.194	.	.	.	
		4	4	CR	.	.	.	.	.	.	.	.	+	869	0.113	.	.
	8		CR	.	.	.	.	.	.	.	.	+	869	0.122	.	.	.
	9		CR	.	.	.	.	.	.	.	.	+	869	0.123	.	.	.
	10		CR	.	.	.	.	.	.	.	.	+	869	0.105	.	.	.
	11		CR	.	.	.	.	.	.	.	.	+	869	0.331	.	.	.
	17		MC	.	.	.	.	.	4304	0.133	+	869	0.111	.	.	.	
	21		MC	.	.	.	.	.	.	.	*	869	-0.126	.	.	.	
	25		CR	.	.	.	.	.	.	.	+	869	0.138	.	.	.	
	39		MC	.	.	.	.	.	4304	0.148	.	.	.	.	.	.	.
	41		MC	.	.	.	.	.	4304	0.102	.	.	.	.	.	.	.
	51		MC	.	.	.	.	.	4304	0.133	.	.	.	.	.	.	.
	53		CR	.	.	.	.	.	.	.	.	+	869	0.136	.	.	.
	5	8	CR	.	.	.	.	.	.	.	.	+	798	0.157	.	.	.
		9	CR	.	.	.	.	.	.	.	.	+	798	0.120	.	.	.
		10	CR	.	.	.	.	.	.	.	.	+	798	0.111	.	.	.
		30	CR	.	.	.	.	.	.	.	.	+	798	0.177	.	.	.
		52	CR	.	.	.	.	.	3927	0.138	+	798	0.330	+	1267	0.105	
	6	5	CR	.	.	.	.	.	.	.	*	521	-0.106	.	.	.	
		8	CR	.	.	.	.	.	.	.	*	521	-0.126	.	.	.	
		52	CR	.	.	.	.	.	.	.	.	.	.	+	1085	0.104	
	7	2	CR	.	.	.	.	.	2026	-0.113	*	399	-0.130	.	.	.	
		8	CR	.	.	.	.	.	2026	0.113	.	.	.	.	.	.	
		10	CR	.	.	.	.	.	.	.	+	399	0.134	.	.	.	
		29	MC	.	.	.	.	.	2026	0.114	.	.	.	.	.	.	
		53	CR	.	.	.	.	.	2026	0.106	.	.	.	.	.	.	

1. Flag + = favoring and \* = disfavoring



**Table 241. Items Flagged for DIF by Accommodations Focal Group (Concluded)**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>												
				Extended Timing			Oral Test			Scribe			Teacher Read Directions			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Writing	8	2	CR	.	.	.	.	.	.	.	*	312	-0.152	.	.	.
		7	CR	.	.	.	.	.	.	.	*	312	-0.109	.	.	.
		10	CR	.	.	.	.	.	.	.	+	312	0.160	.	.	.
		11	CR	+	2689	0.103	+	1976	0.145	.	.	.	.	.	.	.
		13	MC	.	.	.	.	.	.	.	*	312	-0.114	.	.	.
		17	MC	.	.	.	.	.	.	.	*	312	-0.111	.	.	.
		28	CR	+	2689	0.106	.	.	.	.	.	.	.	.	.	.
		30	MC	.	.	.	.	.	.	.	*	312	-0.115	.	.	.
		48	MC	.	.	.	.	.	.	.	*	312	-0.109	.	.	.
	53	CR	+	2689	0.132	+	1976	0.142	+	312	0.155	.	.	.	.	
	9	10	CR	.	.	.	.	.	.	.	+	166	0.103	.	.	.
		18	MC	.	.	.	.	.	.	.	*	166	-0.109	.	.	.
		46	MC	.	.	.	.	.	.	.	+	166	0.110	.	.	.
		49	MC	.	.	.	.	.	.	.	+	166	0.106	.	.	.
		52	CR	.	.	.	+	951	0.161	.	.	.	.	.	.	.
	10	4	CR	.	.	.	.	.	.	.	*	119	-0.119	.	.	.
		5	CR	.	.	.	*	697	-0.106	.	.	.	.	.	.	.
		6	CR	.	.	.	*	697	-0.131	.	.	.	.	*	430	-0.130
		7	CR	.	.	.	*	697	-0.102	.	.	.	.	.	.	.
		10	CR	.	.	.	.	.	.	+	119	0.159	.	.	.	.
		11	CR	.	.	.	+	697	0.264	.	.	.	+	430	0.164	
		17	MC	.	.	.	.	.	.	*	119	-0.124	.	.	.	.
		44	MC	.	.	.	.	.	.	*	119	-0.116	.	.	.	.
		53	CR	.	.	.	+	697	0.118	.	.	.	.	.	.	.
Spanish Writing	3	41	MC	.	.	.	*	51	-0.165	.	.	.	.	.	.	
		52	CR	.	.	.	.	.	.	.	.	.	*	65	-0.135	

1. Flag + = favoring and \* = disfavoring

**Table 242. Items Flagged for DIF by Primary Disability State Focal Group**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>											
				Emotional			Specific Learning Disability			Physical			Speech/Language		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Math-ematics	3	14	CR	.	.	.	*	2492	-0.110	.	.	.	.	.	.
		32	MC	.	.	.	*	2492	-0.117	.	.	.	.	.	.
		34	CR	*	391	-0.121	.	.	.	.	.	.	.	.	.
		38	CR	.	.	.	+	2492	0.180	+	595	0.113	.	.	.
	4	27	CR	.	.	.	+	2872	0.126	.	.	.	.	.	.
		37	MC	.	.	.	*	2872	-0.117	.	.	.	.	.	.
		38	CR	*	424	-0.123	.	.	.	.	.	.	.	.	.
		39	CR	*	424	-0.104	.	.	.	.	.	.	.	.	.
		46	CR	.	.	.	+	2872	0.135	.	.	.	+	1490	0.112
	5	12	CR	.	.	.	+	3001	0.157	+	759	0.110	.	.	.
		44	CR	.	.	.	*	3001	-0.128	.	.	.	.	.	.
		46	CR	.	.	.	+	3001	0.141	+	759	0.129	.	.	.
		54	CR	*	520	-0.114	.	.	.	.	.	.	.	.	.
		69	CR	*	520	-0.239	.	.	.	*	759	-0.106	.	.	.
	6	12	CR	*	599	-0.122	.	.	.	.	.	.	.	.	.
		30	CR	*	599	-0.130	.	.	.	*	773	-0.108	.	.	.
		33	CR	*	599	-0.115	*	3023	-0.143	*	773	-0.211	.	.	.
		37	CR	+	599	0.127	.	.	.	.	.	.	.	.	.
		45	MC	*	599	-0.108	.	.	.	.	.	.	.	.	.
		48	CR	.	.	.	+	3023	0.157	+	773	0.103	+	971	0.148
		60	CR	*	599	-0.267	*	3023	-0.112	*	773	-0.254	.	.	.
	7	43	CR	*	720	-0.108	.	.	.	.	.	.	.	.	.
		53	CR	.	.	.	+	2856	0.106	+	795	0.123	.	.	.
		57	CR	*	720	-0.166	.	.	.	.	.	.	.	.	.
		60	CR	*	720	-0.261	*	2856	-0.115	*	795	-0.217	.	.	.
	8	7	CR	*	729	-0.117	.	.	.	.	.	.	.	.	.
		10	CR	+	729	0.112	.	.	.	.	.	.	.	.	.
		27	MC	.	.	.	*	2614	-0.103	.	.	.	*	581	-0.103
		28	CR	*	729	-0.111	.	.	.	.	.	.	.	.	.
		29	MC	*	729	-0.118	*	2614	-0.132	*	719	-0.117	*	581	-0.123
	9	51	MC	.	.	.	.	.	.	.	.	.	+	581	0.117
		2	MC	.	.	.	.	.	.	.	.	.	+	459	0.109
		35	CR	+	809	0.138	.	.	.	.	.	.	.	.	.
		40	CR	*	809	-0.179	*	2617	-0.125	*	783	-0.175	.	.	.
		54	CR	*	809	-0.113	*	2617	-0.107	.	.	.	*	459	-0.112
	10	60	CR	*	809	-0.176	.	.	.	.	.	.	.	.	.
		17	MC	+	642	0.109	.	.	.	.	.	.	.	.	.
		26	MC	.	.	.	.	.	.	.	.	.	+	355	0.106
		35	CR	+	642	0.152	.	.	.	+	680	0.105	.	.	.
		40	CR	*	642	-0.152	.	.	.	.	.	.	.	.	.
Reading	3	52	CR	*	642	-0.131	.	.	.	.	.	.	.	.	.
		12	CR	*	379	-0.414	*	2405	-0.159	*	587	-0.200	.	.	.
		15	CR	*	379	-0.161	.	.	.	.	.	.	.	.	.
		18	CR	*	379	-0.107	.	.	.	.	.	.	.	.	.
		21	CR	*	379	-0.144	.	.	.	.	.	.	.	.	.
		27	CR	*	379	-0.160	.	.	.	.	.	.	.	.	.
		33	MC	+	379	0.110	.	.	.	.	.	.	.	.	.

1. Flag + = favoring and \* = disfavoring

**Table 242. Items Flagged for DIF by Primary Disability State Focal Group (Continued)**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>											
				Emotional			Specific Learning Disability			Physical			Speech/Language		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	4	8	CR	.	.	.	.	.	.	*	628	-0.106	.	.	.
		14	CR	*	420	-0.135	.	.	.	.	.	.	.	.	.
		15	CR	.	.	.	.	.	.	*	628	-0.100	.	.	.
		26	CR	*	420	-0.119	.	.	.	.	.	.	.	.	.
		37	CR	*	420	-0.139	.	.	.	.	.	.	.	.	.
		42	CR	*	420	-0.107	.	.	.	.	.	.	.	.	.
		57	CR	*	420	-0.144	.	.	.	.	.	.	.	.	.
		63	CR	*	420	-0.100	.	.	.	.	.	.	.	.	.
	5	5	CR	*	520	-0.159	.	.	.	*	747	-0.105	.	.	.
		24	CR	*	520	-0.287	.	.	.	*	747	-0.152	.	.	.
		33	CR	*	520	-0.152	.	.	.	.	.	.	.	.	.
		51	MC	.	.	.	.	.	.	+	747	0.106	.	.	.
		54	CR	.	.	.	.	.	.	*	747	-0.102	.	.	.
	6	60	CR	*	520	-0.117	.	.	.	.	.	.	.	.	.
		16	CR	*	596	-0.273	.	.	.	*	773	-0.122	.	.	.
		26	CR	*	596	-0.277	.	.	.	*	773	-0.333	.	.	.
		34	CR	*	596	-0.102	.	.	.	.	.	.	.	.	.
		36	CR	*	596	-0.199	.	.	.	*	773	-0.120	.	.	.
	7	37	CR	*	596	-0.108	.	.	.	.	.	.	.	.	.
		64	CR	*	596	-0.204	.	.	.	*	773	-0.160	.	.	.
		1	CR	*	723	-0.134	.	.	.	.	.	.	.	.	.
		2	CR	*	723	-0.174	.	.	.	*	795	-0.111	.	.	.
		5	MC	+	723	0.110	.	.	.	.	.	.	.	.	.
	8	11	CR	*	723	-0.162	.	.	.	*	795	-0.116	.	.	.
		19	CR	*	723	-0.122	.	.	.	.	.	.	.	.	.
		29	CR	*	723	-0.200	.	.	.	*	795	-0.170	.	.	.
		38	CR	*	723	-0.198	*	2834	-0.101	*	795	-0.217	.	.	.
		10	CR	*	712	-0.124	*	2626	-0.107	*	724	-0.137	.	.	.
	9	11	CR	*	712	-0.109	.	.	.	.	.	.	.	.	.
		24	CR	*	712	-0.217	.	.	.	*	724	-0.108	.	.	.
		26	CR	*	712	-0.191	*	2626	-0.104	*	724	-0.158	.	.	.
		62	CR	*	712	-0.168	.	.	.	*	724	-0.104	.	.	.
		65	CR	*	712	-0.279	+	2626	0.144	.	.	.	+	580	0.202
	10	2	CR	.	.	.	*	2581	-0.116	.	.	.	.	.	.
		10	CR	*	804	-0.116	.	.	.	.	.	.	.	.	.
		22	CR	*	804	-0.171	.	.	.	*	767	-0.177	.	.	.
		39	CR	*	804	-0.102	.	.	.	.	.	.	.	.	.
		41	CR	*	804	-0.171	.	.	.	.	.	.	.	.	.
		42	MC	.	.	.	.	.	.	+	767	0.105	.	.	.
		44	CR	*	804	-0.151	.	.	.	*	767	-0.106	.	.	.
		60	CR	*	804	-0.174	.	.	.	*	767	-0.126	.	.	.
		61	CR	*	804	-0.106	.	.	.	*	767	-0.103	.	.	.
	10	7	CR	*	629	-0.143	.	.	.	.	.	.	.	.	.
		11	CR	*	629	-0.229	*	2266	-0.103	.	.	.	.	.	.
		12	CR	*	629	-0.111	.	.	.	.	.	.	.	.	.
		26	MC	.	.	.	.	.	.	.	.	.	*	349	-0.120
		27	CR	*	629	-0.118	.	.	.	.	.	.	.	.	.
		29	CR	*	629	-0.178	.	.	.	*	685	-0.179	.	.	.
		46	CR	*	629	-0.111	.	.	.	.	.	.	.	.	.
		47	CR	*	629	-0.183	.	.	.	*	685	-0.109	+	349	0.155
		54	CR	*	629	-0.120	.	.	.	.	.	.	.	.	.
		66	MC	+	629	0.113	.	.	.	.	.	.	.	.	.
		69	MC	+	629	0.114	.	.	.	+	685	0.103	.	.	.

1. Flag + = favoring and \* = disfavoring

**Table 242. Items Flagged for DIF by Primary Disability State Focal Group (Continued)**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>											
				Emotional			Specific Learning Disability			Physical			Speech/Language		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Science	8	7	CR	+	725	0.102	.	.	.	+	727	0.105	.	.	.
		22	CR	*	725	-0.451	*	2632	-0.280	*	727	-0.365	.	.	.
		39	CR	*	725	-0.171	*	2632	-0.132	*	727	-0.142	.	.	.
		41	CR	.	.	.	.	.	.	.	.	.	+	584	0.158
	10	10	MC	+	647	0.143	.	.	.	+	690	0.124	+	355	0.104
		22	CR	*	647	-0.561	*	2294	-0.220	*	690	-0.447	.	.	.
		23	CR	*	647	-0.219	*	2294	-0.115	*	690	-0.147	.	.	.
		29	CR	+	647	0.148	+	2294	0.116	+	690	0.106	.	.	.
		35	CR	*	647	-0.207	.	.	.	*	690	-0.139	.	.	.
		50	CR	.	.	.	.	.	.	+	690	0.126	.	.	.
		53	CR	.	647	-0.140	.	.	.	.	.	.	.	.	.
		68	MC	+	647	0.113	+	2294	0.120	+	690	0.108	.	.	.
Writing	3	5	CR	.	.	.	*	2400	-0.173	.	.	.	.	.	.
		9	MC	.	.	.	+	2400	0.107	.	.	.	.	.	.
		11	MC	+	389	0.115	.	.	.	.	.	.	.	.	.
		38	CR	.	.	.	.	.	.	*	585	-0.102	.	.	.
		52	CR	*	389	-0.124	.	.	.	.	.	.	.	.	.
	4	3	CR	*	418	-0.137	.	.	.	.	.	.	.	.	.
		7	CR	.	.	.	*	2833	-0.109	.	.	.	.	.	.
		8	CR	*	418	-0.167	.	.	.	.	.	.	.	.	.
		9	CR	*	418	-0.189	.	.	.	.	.	.	.	.	.
		11	CR	*	418	-0.176	.	.	.	.	.	.	.	.	.
		13	MC	+	418	0.104	.	.	.	.	.	.	.	.	.
		17	MC	+	418	0.139	+	2833	0.119	+	630	0.114	.	.	.
		25	CR	*	418	-0.343	.	.	.	*	630	-0.166	.	.	.
		48	MC	.	.	.	.	.	.	+	630	0.101	.	.	.
		53	CR	*	418	-0.289	.	.	.	*	630	-0.126	.	.	.
	5	9	CR	*	521	-0.149	.	.	.	.	.	.	.	.	.
		13	MC	.	.	.	.	.	.	.	.	.	*	1264	-0.103
		30	CR	*	521	-0.172	.	.	.	.	.	.	.	.	.
		42	MC	+	521	0.102	.	.	.	.	.	.	.	.	.
		52	CR	.	.	.	+	3004	0.135	.	.	.	+	1264	0.113
		53	CR	*	521	-0.168	.	.	.	*	748	-0.104	.	.	.
	6	8	CR	*	599	-0.168	.	.	.	*	775	-0.133	.	.	.
		9	CR	*	599	-0.167	.	.	.	*	775	-0.137	.	.	.
		18	MC	+	599	0.127	.	.	.	.	.	.	.	.	.
		31	CR	*	599	-0.286	.	.	.	*	775	-0.150	.	.	.
		52	CR	*	599	-0.202	.	.	.	*	775	-0.105	.	.	.
		53	CR	*	599	-0.298	.	.	.	*	775	-0.152	.	.	.
	7	2	CR	.	.	.	.	.	.	.	.	.	*	731	-0.123
		4	CR	.	.	.	*	2840	-0.112	.	.	.	.	.	.
		8	CR	*	727	-0.171	.	.	.	*	794	-0.151	.	.	.
		9	CR	*	727	-0.190	.	.	.	*	794	-0.119	.	.	.
		11	CR	*	727	-0.170	.	.	.	*	794	-0.149	.	.	.
		21	CR	*	727	-0.219	.	.	.	*	794	-0.166	.	.	.
		53	CR	*	727	-0.155	.	.	.	.	.	.	.	.	.
	8	2	CR	.	.	.	*	2628	-0.115	.	.	.	.	.	.
		8	CR	*	716	-0.162	.	.	.	.	.	.	.	.	.
		9	CR	*	716	-0.140	.	.	.	.	.	.	.	.	.
		11	CR	*	716	-0.173	.	.	.	*	726	-0.111	+	580	0.141
		28	CR	*	716	-0.223	.	.	.	*	726	-0.133	.	.	.
		53	CR	*	716	-0.222	+	2628	0.116	.	.	.	+	580	0.132

1. Flag + = favoring and \* = disfavoring

**Table 242. Items Flagged for DIF by Primary Disability State Focal Group (Concluded)**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>											
				Emotional			Specific Learning Disability			Physical			Speech/Language		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	9	8	CR	*	799	-0.110	.	.	.	.	.	.	.	.	.
		9	CR	*	799	-0.151	.	.	.	*	768	-0.104	.	.	.
		16	MC	.	.	.	.	.	.	+	768	0.103	.	.	.
		24	CR	*	799	-0.146	.	.	.	.	.	.	+	460	0.155
		49	MC	.	.	.	.	.	.	*	.	.	*	460	-0.146
		52	CR	*	799	-0.151	.	.	.	*	768	-0.132	+	460	0.208
		53	CR	*	799	-0.165	.	.	.	*	768	-0.119	+	460	0.161
	10	4	CR	.	.	.	*	2268	-0.169	.	.	.	*	350	-0.109
		6	CR	.	.	.	*	2268	-0.122	.	.	.	*	350	-0.102
		8	CR	*	624	-0.137	.	.	.	*	686	-0.117	.	.	.
		9	CR	*	624	-0.116	.	.	.	*	686	-0.124	.	.	.
		11	CR	*	624	-0.167	.	.	.	.	.	.	+	350	0.216
		33	CR	*	624	-0.261	.	.	.	*	686	-0.224	+	350	0.208
		53	CR	*	624	-0.158	.	.	.	*	686	-0.167	+	350	0.156
Spanish	3	16	MC	.	.	.	+	66	0.142	.	.	.	.	.	.
Writing		47	MC	.	.	.	*	66	-0.172	.	.	.	.	.	.

1. Flag + = favoring and \* = disfavoring

**Table 243. Items Flagged for DIF by Enrollment Focal Group**

Content Area	Grade	Item #	Item Type	Enrollment Focal Group <sup>1</sup>								
				Cont. Enroll. in CO						Cont. Enroll. in ELL		
				No			Yes			Flag	N	Obs-Prd
				Flag	N	Obs-Prd	Flag	N	Obs-Prd			
Mathematics	3	26	MC	.	.	.	.	.	.	*	164	-0.105
		34	CR	.	.	.	+	614	0.111	.	.	.
	4	9	CR	.	.	.	.	.	.	*	5880	-0.191
		13	CR	.	.	.	.	.	.	*	5880	-0.101
		23	CR	.	.	.	.	.	.	*	5880	-0.112
		69	CR	.	.	.	.	.	.	+	5880	0.215
	6	8	CR	.	.	.	.	.	.	+	5140	0.118
		22	MC	.	.	.	.	.	.	*	5140	-0.127
		37	CR	.	.	.	.	.	.	*	5140	-0.111
		48	CR	.	.	.	.	.	.	+	5140	0.105
		51	CR	.	.	.	.	.	.	+	5140	0.164
	7	39	MC	.	.	.	.	.	.	*	4805	-0.108
	8	2	CR	.	.	.	.	.	.	+	4414	0.135
		27	MC	.	.	.	.	.	.	*	4414	-0.116
		29	MC	.	.	.	.	.	.	*	4414	-0.121
		60	CR	.	.	.	.	.	.	+	4414	0.171
	9	40	CR	.	.	.	.	.	.	+	3896	0.100
Reading	3	12	CR	.	.	.	*	652	-0.184	.	.	.
		18	CR	.	.	.	.	.	.	+	165	0.234
		27	CR	.	.	.	*	652	-0.106	.	.	.
		34	MC	.	.	.	.	.	.	+	165	0.107
	4	57	CR	.	.	.	.	.	.	+	5826	0.108
		60	MC	.	.	.	.	.	.	*	5826	-0.139
		63	CR	.	.	.	.	.	.	+	5826	0.113
	5	24	CR	.	.	.	.	.	.	+	5612	0.110
		51	MC	.	.	.	.	.	.	*	5612	-0.122
	6	16	CR	.	.	.	.	.	.	+	5128	0.101
		26	CR	.	.	.	.	.	.	+	5128	0.181
		38	MC	.	.	.	.	.	.	*	5128	-0.101
		64	CR	.	.	.	.	.	.	+	5128	0.135
	7	1	CR	.	.	.	.	.	.	+	4802	0.119
		2	CR	.	.	.	.	.	.	+	4802	0.123
		5	MC	.	.	.	.	.	.	*	4802	-0.135
		35	CR	.	.	.	.	.	.	+	4802	0.102
		38	CR	.	.	.	.	.	.	+	4802	0.127
	8	10	CR	.	.	.	.	.	.	+	4408	0.202
		11	CR	.	.	.	.	.	.	+	4408	0.144
		24	CR	.	.	.	.	.	.	+	4408	0.192
		51	MC	.	.	.	.	.	.	*	4408	-0.115
		65	CR	.	.	.	.	.	.	+	4408	0.250

1. Flag + = favoring and \* = disfavoring

**Table 243. Items Flagged for DIF by Enrollment Focal Group (Continued)**

Content Area	Grade	Item #	Item Type	Enrollment Focal Group <sup>1</sup>								
				Cont. Enroll. in CO						Cont. Enroll. in ELL		
				No			Yes					
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	09	10	CR	.	.	.	.	.	.	+	3842	0.180
		11	CR	.	.	.	.	.	.	+	3842	0.181
		34	MC	.	.	.	.	.	.	*	3842	-0.165
		42	MC	.	.	.	.	.	.	*	3842	-0.101
		44	CR	.	.	.	.	.	.	+	3842	0.199
		55	CR	.	.	.	.	.	.	+	3842	0.111
		59	CR	.	.	.	.	.	.	+	3842	0.152
		60	CR	.	.	.	.	.	.	+	3842	0.180
	10	7	CR	.	.	.	.	.	.	+	3175	0.180
		11	CR	.	.	.	.	.	.	+	3175	0.198
		29	CR	.	.	.	.	.	.	+	3175	0.146
		46	CR	.	.	.	.	.	.	+	3175	0.112
		47	CR	.	.	.	.	.	.	+	3175	0.160
		66	MC	.	.	.	.	.	.	*	3175	-0.160
		69	MC	.	.	.	.	.	.	*	3175	-0.120
Science	05	28	CR	.	.	.	.	.	.	*	5610	-0.132
	08	22	CR	.	.	.	.	.	.	+	4397	0.207
		41	CR	.	.	.	.	.	.	+	4397	0.102
	10	22	CR	*	8729	-0.109	.	.	.	+	3208	0.364
		71	CR	.	.	.	.	.	.	*	3208	-0.192
Writing	03	7	MC	.	.	.	.	.	.	*	167	-0.145
		11	MC	.	.	.	.	.	.	*	167	-0.189
		14	MC	.	.	.	.	.	.	*	167	-0.131
		21	CR	.	.	.	.	.	.	+	167	0.120
		23	MC	.	.	.	.	.	.	*	167	-0.174
		45	MC	.	.	.	.	.	.	*	167	-0.112
		52	CR	.	.	.	.	.	.	+	167	0.103
	04	4	CR	.	.	.	.	.	.	+	5822	0.107
		8	CR	.	.	.	.	.	.	+	5822	0.102
		11	CR	.	.	.	.	.	.	+	5822	0.132
		13	MC	.	.	.	.	.	.	*	5822	-0.198
		14	MC	.	.	.	.	.	.	*	5822	-0.141
		25	CR	.	.	.	.	.	.	+	5822	0.141
		29	MC	.	.	.	.	.	.	*	5822	-0.154
		53	CR	.	.	.	.	.	.	+	5822	0.147
	05	30	CR	.	.	.	.	.	.	+	5607	0.139
		52	CR	.	.	.	.	.	.	+	5607	0.114
	06	31	CR	.	.	.	.	.	.	+	5137	0.138
		34	MC	.	.	.	.	.	.	*	5137	-0.134
		52	CR	.	.	.	.	.	.	+	5137	0.132
		53	CR	.	.	.	.	.	.	+	5137	0.113
	07	8	CR	.	.	.	.	.	.	+	4802	0.104
		21	CR	.	.	.	.	.	.	+	4802	0.112
		46	MC	.	.	.	.	.	.	*	4802	-0.136

1. Flag + = favoring and \* = disfavoring

**Table 243. Items Flagged for DIF by Enrollment Focal Group (Concluded)**

Content Area	Grade	Item #	Item Type	Enrollment Focal Group <sup>1</sup>								
				Cont. Enroll. in CO						Cont. Enroll. in ELL		
				No			Yes					
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	8	8	CR	.	.	.	.	.	.	+	4407	0.118
		11	CR	.	.	.	.	.	.	+	4407	0.123
		14	MC	.	.	.	.	.	.	*	4407	-0.116
		15	MC	.	.	.	.	.	.	*	4407	-0.128
		28	CR	.	.	.	.	.	.	+	4407	0.147
		38	MC	.	.	.	.	.	.	*	4407	-0.130
		53	CR	.	.	.	.	.	.	+	4407	0.132
	9	8	CR	.	.	.	.	.	.	+	3843	0.129
		13	MC	.	.	.	.	.	.	*	3843	-0.102
		16	MC	.	.	.	.	.	.	*	3843	-0.162
		24	CR	.	.	.	.	.	.	+	3843	0.145
		52	CR	.	.	.	.	.	.	+	3843	0.171
		53	CR	.	.	.	.	.	.	+	3843	0.222
	10	4	CR	.	.	.	.	.	.	+	3167	0.113
		33	CR	.	.	.	.	.	.	+	3167	0.220
		41	MC	.	.	.	.	.	.	*	3167	-0.140
		49	MC	.	.	.	.	.	.	*	3167	-0.118
		53	CR	.	.	.	.	.	.	+	3167	0.151

1. Flag + = favoring and \* = disfavoring



**Table 244. Items Flagged for DIF by Language Proficiency Focal Group**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>															
				Bilingual			ESL			FEP			LEP			NEP			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Mathematics	3	10	CR	+	1808	0.117										+	3083	0.123	
		15	MC	*	1808	-0.108	.	.	.	.	.	.	.	.	.	.	.	.	
		26	MC	.	.	.	.	.	.	*	1988	-0.107	.	.	.	.	.	.	.
		31	CR	+	1808	0.103	.	.	.	.	.	.	.	.	.	.	.	.	
	4	9	CR	*	1223	-0.272	*	9005	-0.167	*	2908	-0.111	*	5448	-0.194	*	1821	-0.249	
		11	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1821	-0.121	
		13	CR	.	.	.	.	.	.	.	.	.	*	5448	-0.111	.	.	.	
		14	CR	.	.	.	.	.	.	.	.	.	.	.	.	+	1821	0.119	
		18	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1821	-0.176	
		23	CR	*	1223	-0.209	.	.	.	.	.	.	.	.	.	*	1821	-0.354	
		37	MC	+	1223	0.100	.	.	.	.	.	.	.	.	.	.	.	.	
		38	CR	*	1223	-0.126	.	.	.	.	.	.	.	.	.	*	1821	-0.101	
		45	MC	*	1223	-0.140	.	.	.	.	.	.	.	.	.	*	1821	-0.142	
		46	CR	.	.	.	.	.	.	.	.	.	.	.	.	+	1821	0.198	
		56	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1821	-0.119	
		63	CR	+	1223	0.133	.	.	.	.	.	.	.	.	.	.	.	.	
		69	CR	+	1223	0.196	+	9005	0.178	+	2908	0.185	+	5448	0.191	+	1821	0.152	
	5	4	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1697	-0.110	
		9	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1697	-0.135	
		12	CR	.	.	.	.	.	.	.	.	.	.	.	.	+	1697	0.127	
		15	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1697	-0.172	
		28	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	1697	0.107	
		33	CR	+	1068	0.110	.	.	.	.	.	.	.	.	.	.	.	.	
		42	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	1697	0.118	
		44	CR	+	1068	0.103	.	.	.	.	.	.	.	.	.	.	.	.	
		51	CR	+	1068	0.112	.	.	.	.	.	.	.	.	.	+	1697	0.131	

1. Flag + = favoring and \* = disfavoring

Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	5	54	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1697	-0.282
		57	CR	*	1068	-0.126	.	.	.	.	.	.	.	.	.	.	.	.
		69	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1697	-0.118
	6	5	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1274	-0.157
		7	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1274	-0.120
		8	CR	+	553	0.136	+	8442	0.100	.	.	.	+	3849	0.116	+	1274	0.171
		22	MC	*	553	-0.158	*	8442	-0.124	.	.	.	*	3849	-0.131	*	1274	-0.238
		23	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1274	-0.187
		37	CR	*	553	-0.116	*	8442	-0.102	.	.	.	*	3849	-0.146	*	1274	-0.124
		44	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1274	-0.131
		46	CR	.	.	.	.	.	.	.	.	.	.	.	.	+	1274	0.120
		48	CR	.	.	.	.	.	.	.	.	.	+	3849	0.108	+	1274	0.224
		51	CR	+	553	0.184	+	8442	0.135	+	3835	0.127	+	3849	0.150	+	1274	0.138
		60	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1274	-0.140
	7	7	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	1121	0.101
		26	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	1121	0.106
		39	MC	*	441	-0.114	*	8220	-0.102	*	4019	-0.117	*	3520	-0.107	.	.	.
		43	CR	*	441	-0.111	.	.	.	.	.	.	.	.	.	*	1121	-0.195
		53	CR	+	441	0.115	.	.	.	.	.	.	.	.	.	+	1121	0.153
		57	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1121	-0.113
		60	CR	.	.	.	.	.	.	+	4019	0.168	.	.	.	*	1121	-0.189
	8	2	CR	.	.	.	+	7776	0.101	+	4105	0.120	+	3123	0.105	.	.	.
		20	CR	+	425	0.167	.	.	.	.	.	.	.	.	.	.	.	.
		23	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	966	0.121
		26	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	966	-0.128

1. Flag + = favoring and \* = disfavoring

Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	8	27	MC	*	425	-0.115	*	7776	-0.120	*	4105	-0.116	*	3123	-0.130	*	966	-0.101
		28	CR	*	425	-0.114	.	.	.	.	.	.	.	.	.	*	966	-0.136
		29	MC	.	.	.	*	7776	-0.108	.	.	.	*	3123	-0.121	*	966	-0.118
		30	CR	+	425	0.119	.	.	.	.	.	.	.	.	.	.	.	.
		33	CR	+	425	0.104	.	.	.	.	.	.	.	.	.	.	.	.
		35	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	966	0.109
		46	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	966	0.110
		53	CR	.	.	.	.	.	.	.	.	.	*	3123	-0.143	*	966	-0.120
		60	CR	.	.	.	+	7776	0.117	+	4105	0.128	+	3123	0.149	.	.	.
	9	2	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	1171	0.104
		6	CR	+	312	0.104	.	.	.	.	.	.	.	.	.	.	.	.
		35	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1171	-0.108
		40	CR	.	.	.	.	.	.	+	3868	0.102	.	.	.	.	.	.
		47	MC	*	312	-0.170	.	.	.	.	.	.	.	.	.	*	1171	-0.190
		54	CR	.	.	.	.	.	.	.	.	.	*	2821	-0.112	*	1171	-0.123
		60	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1171	-0.115
	10	5	MC	+	213	0.109	.	.	.	.	.	.	.	.	.	+	953	0.133
		12	CR	+	213	0.128	.	.	.	.	.	.	.	.	.	+	953	0.193
		14	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	953	0.107
		15	CR	*	213	-0.120	.	.	.	.	.	.	.	.	.	*	953	-0.250
		26	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	953	0.120
		30	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	953	-0.124
		34	MC	*	213	-0.110	.	.	.	.	.	.	.	.	.	.	.	.
		35	CR	*	213	-0.125	.	.	.	.	.	.	.	.	.	*	953	-0.107
		39	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	953	0.100
		44	CR	+	213	0.102	.	.	.	.	.	.	.	.	.	.	.	.
		55	MC	*	213	-0.108	.	.	.	.	.	.	.	.	.	.	.	.

1. Flag + = favoring and \* = disfavoring

Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	3	12	CR	.	.	.	.	.	.	+	2004	0.137	+	5125	0.137	.	.	.
		15	CR	+	662	0.253	+	8561	0.168	+	2004	0.146	+	5125	0.186	+	2055	0.176
		18	CR	+	662	0.182	+	8561	0.109	.	.	.	+	5125	0.151	.	.	.
		27	CR	+	662	0.169	+	8561	0.152	+	2004	0.111	+	5125	0.184	+	2055	0.128
		33	MC	*	662	-0.104	.	.	.	.	.	.	*	5125	-0.106	.	.	.
	4	8	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1568	-0.121
		14	CR	.	.	.	.	.	.	.	.	.	.	.	.	+	1568	0.135
		22	MC	*	1107	-0.103	.	.	.	.	.	.	.	.	.	.	.	.
		26	CR	+	1107	0.127	.	.	.	+	2892	0.104	+	5405	0.102	.	.	.
		37	CR	+	1107	0.140	.	.	.	.	.	.	.	.	.	.	.	.
		45	CR	.	.	.	.	.	.	.	.	.	+	5405	0.106	.	.	.
		53	MC	*	1107	-0.131	.	.	.	.	.	.	.	.	.	*	1568	-0.113
		57	CR	+	1107	0.175	.	.	.	.	.	.	+	5405	0.111	.	.	.
		60	MC	*	1107	-0.134	*	8803	-0.121	*	2892	-0.116	*	5405	-0.155	.	.	.
		63	CR	+	1107	0.133	+	8803	0.108	+	2892	0.149	.	.	.	+	1568	0.116
	5	15	MC	*	1065	-0.103	.	.	.	.	.	.	.	.	.	.	.	.
		17	MC	.	.	.	.	.	.	*	3398	-0.113	.	.	.	.	.	.
		24	CR	+	1065	0.188	.	.	.	+	3398	0.164	+	4630	0.133	.	.	.
		25	MC	.	.	.	.	.	.	*	3398	-0.100	.	.	.	.	.	.
		43	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	1650	0.144
		51	MC	*	1065	-0.127	*	8649	-0.122	*	3398	-0.151	*	4630	-0.131	.	.	.
		52	MC	+	1065	0.103	.	.	.	.	.	.	.	.	.	.	.	.
		53	CR	.	.	.	.	.	.	+	3398	0.144	.	.	.	.	.	.
		54	CR	+	1065	0.116	+	8649	0.102	+	3398	0.106	+	4630	0.104	+	1650	0.101
		56	MC	+	1065	0.133	.	.	.	+	3398	0.124	.	.	.	.	.	.
		62	MC	*	1065	-0.100	.	.	.	.	.	.	.	.	.	*	1650	-0.113

1. Flag + = favoring and \* = disfavoring

Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	6	17	CR	+	545	0.107	.	.	.	+	3829	0.112	.	.	.	.	.	.
		26	CR	+	545	0.225	+	8398	0.169	+	3829	0.184	+	3850	0.224	.	.	.
		36	CR	.	.	.	+	8398	0.109	+	3829	0.202	.	.	.	*	1235	-0.121
		37	CR	.	.	.	.	.	.	+	3829	0.104	.	.	.	*	1235	-0.127
		38	MC	*	545	-0.111	*	8398	-0.101	.	.	.	*	3850	-0.127	.	.	.
		57	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1235	-0.136
		64	CR	.	.	.	+	8398	0.133	+	3829	0.213	.	.	.	.	.	.
	7	1	CR	.	.	.	+	8191	0.122	.	.	.	+	3514	0.117	+	1096	0.230
		2	CR	+	445	0.154	+	8191	0.128	+	4019	0.125	+	3514	0.143	+	1096	0.103
		5	MC	*	445	-0.129	*	8191	-0.128	*	4019	-0.148	*	3514	-0.129	.	.	.
		23	MC	*	445	-0.127	.	.	.	.	.	.	.	.	.	*	1096	-0.137
		29	CR	*	445	-0.161	.	.	.	+	4019	0.103	.	.	.	*	1096	-0.327
		31	MC	.	.	.	.	.	.	.	.	.	*	3514	-0.132	.	.	.
		35	CR	.	.	.	.	.	.	+	4019	0.113	.	.	.	.	.	.
		38	CR	.	.	.	+	8191	0.136	+	4019	0.139	+	3514	0.150	.	.	.
		39	CR	+	445	0.148	+	8191	0.107	+	4019	0.103	.	.	.	+	1096	0.175
		48	CR	*	445	-0.100	.	.	.	.	.	.	.	.	.	*	1096	-0.120
	8	3	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	941	-0.105
		10	CR	+	427	0.150	+	7742	0.187	+	4103	0.184	+	3114	0.243	.	.	.
		11	CR	+	427	0.285	+	7742	0.135	+	4103	0.170	+	3114	0.103	+	941	0.159
		17	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	941	0.103
		24	CR	+	427	0.183	+	7742	0.185	+	4103	0.184	+	3114	0.202	+	941	0.133
		26	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	941	-0.178
		28	MC	*	427	-0.106	.	.	.	.	.	.	.	.	.	.	.	.
		34	CR	+	427	0.104	.	.	.	.	.	.	+	3114	0.112	+	941	0.253

1. Flag + = favoring and \* = disfavoring

Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	8	35	CR	+	427	0.114	.	.	.	.	.	.	+	3114	0.125	+	941	0.153
		44	CR	*	427	-0.116	.	.	.	.	.	.	.	.	.	.	.	.
		45	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	941	-0.152
		49	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	941	-0.129
		50	MC	*	427	-0.106	.	.	.	.	.	.	.	.	.	.	.	.
		51	MC	*	427	-0.108	*	7742	-0.110	*	4103	-0.126	*	3114	-0.121	.	.	.
		62	CR	+	427	0.222	.	.	.	.	.	.	.	.	.	+	941	0.170
		65	CR	+	427	0.313	+	7742	0.174	+	4103	0.112	+	3114	0.277	+	941	0.176
		67	MC	.	.	.	.	.	.	.	.	.	*	3114	-0.117	.	.	.
		68	MC	.	.	.	.	.	.	*	4103	-0.101	.	.	.	.	.	.
	9	2	CR	*	311	-0.149	.	.	.	.	.	.	*	2793	-0.190	*	1138	-0.293
		4	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1138	-0.123
		10	CR	.	.	.	+	7478	0.171	+	3834	0.170	+	2793	0.229	.	.	.
		11	CR	.	.	.	+	7478	0.144	+	3834	0.130	+	2793	0.149	+	1138	0.187
		22	CR	.	.	.	.	.	.	+	3834	0.102	.	.	.	.	.	.
		30	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1138	-0.159
		32	MC	*	311	-0.104	.	.	.	.	.	.	.	.	.	.	.	.
		34	MC	*	311	-0.161	*	7478	-0.146	*	3834	-0.152	*	2793	-0.161	.	.	.
		41	CR	.	.	.	.	.	.	+	3834	0.120	.	.	.	*	1138	-0.104
		42	MC	.	.	.	.	.	.	.	.	.	*	2793	-0.116	.	.	.
		43	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	1138	0.109
		44	CR	+	311	0.169	+	7478	0.198	+	3834	0.160	+	2793	0.215	+	1138	0.278
		55	CR	.	.	.	+	7478	0.104	+	3834	0.108	+	2793	0.111	.	.	.
		56	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1138	-0.105
		59	CR	+	311	0.239	+	7478	0.140	+	3834	0.128	+	2793	0.140	+	1138	0.206
		60	CR	+	311	0.173	+	7478	0.176	.	.	.	+	2793	0.246	+	1138	0.324
		61	CR	+	311	0.200	.	.	.	.	.	.	.	.	.	+	1138	0.215

1. Flag + = favoring and \* = disfavoring

Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	10	2	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	931	-0.116
		3	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	931	0.108
		7	CR	.	.	.	+	6028	0.138	+	3026	0.153	+	2270	0.187	.	.	.
		11	CR	+	206	0.221	+	6028	0.174	+	3026	0.164	+	2270	0.243	.	.	.
		28	MC	*	206	-0.138	.	.	.	.	.	.	*	2270	-0.168	*	931	-0.108
		29	CR	.	.	.	+	6028	0.139	+	3026	0.189	+	2270	0.135	.	.	.
		46	CR	.	.	.	+	6028	0.105	+	3026	0.102	+	2270	0.110	+	931	0.103
		47	CR	+	206	0.444	+	6028	0.150	.	.	.	+	2270	0.218	+	931	0.328
		66	MC	*	206	-0.116	*	6028	-0.150	*	3026	-0.177	*	2270	-0.152	.	.	.
		69	MC	.	.	.	*	6028	-0.124	*	3026	-0.130	*	2270	-0.131	.	.	.
Science	5	6	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1676	-0.103
		25	CR	.	.	.	.	.	.	.	.	.	.	.	.	+	1676	0.106
		28	CR	*	1067	-0.182	*	8651	-0.114	*	3391	-0.121	*	4617	-0.140	.	.	.
		31	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	1676	0.113
		46	CR	*	1067	-0.190	.	.	.	.	.	.	*	4617	-0.115	*	1676	-0.247
		64	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1676	-0.183
		75	CR	+	1067	0.118	.	.	.	.	.	.	.	.	.	.	.	.
	8	2	CR	.	.	.	.	.	.	.	.	.	.	.	.	+	955	0.102
		8	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	955	0.113
		16	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	955	0.104
		22	CR	+	425	0.233	+	7734	0.208	+	4089	0.178	+	3115	0.252	+	955	0.195
		39	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	955	-0.116
		41	CR	.	.	.	.	.	.	.	.	.	+	3115	0.133	+	955	0.104
		49	CR	*	425	-0.118	.	.	.	.	.	.	.	.	.	*	955	-0.125
		53	CR	+	425	0.112	.	.	.	.	.	.	.	.	.	.	.	.
		57	CR	*	425	-0.125	.	.	.	.	.	.	.	.	.	.	.	.
		66	CR	*	425	-0.124	.	.	.	.	.	.	.	.	.	*	955	-0.337

1. Flag + = favoring and \* = disfavoring

Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Science	10	22	CR	.	.	.	+	6099	0.294	+	3058	0.253	+	2282	0.325	+	962	0.331
		23	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	962	-0.132
		26	CR	+	214	0.103	.	.	.	.	.	.	.	.	.	.	.	.
		28	MC	+	214	0.111	.	.	.	.	.	.	.	.	.	+	962	0.101
		35	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	962	-0.188
		39	MC	+	214	0.114	.	.	.	.	.	.	.	.	.	+	962	0.145
		40	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	962	-0.163
		56	MC	+	214	0.102	.	.	.	.	.	.	.	.	.	.	.	.
		71	CR	*	214	-0.198	*	6099	-0.191	*	3058	-0.147	*	2282	-0.236	*	962	-0.238
		76	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	962	0.119
		83	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	962	-0.119
Writing	3	4	CR	.	.	.	.	.	.	.	.	.	.	.	.	+	2072	0.115
		7	MC	*	653	-0.101	.	.	.	.	.	.	*	5142	-0.101	.	.	.
		11	MC	*	653	-0.291	*	8597	-0.221	.	.	.	*	5142	-0.252	*	2072	-0.289
		14	MC	*	653	-0.173	*	8597	-0.125	.	.	.	*	5142	-0.124	*	2072	-0.222
		23	MC	*	653	-0.170	*	8597	-0.144	*	1994	-0.114	*	5142	-0.176	*	2072	-0.105
	4	4	CR	+	1110	0.219	.	.	.	.	.	.	+	5405	0.113	.	.	.
		5	CR	*	1110	-0.102	.	.	.	.	.	.	.	.	.	.	.	.
		8	CR	+	1110	0.126	.	.	.	.	.	.	+	5405	0.106	+	1571	0.176
		9	CR	+	1110	0.105	.	.	.	.	.	.	.	.	.	.	.	.
		11	CR	+	1110	0.177	+	8801	0.104	.	.	.	+	5405	0.136	+	1571	0.187
		13	MC	*	1110	-0.297	*	8801	-0.153	.	.	.	*	5405	-0.212	*	1571	-0.241
		14	MC	*	1110	-0.220	*	8801	-0.108	.	.	.	*	5405	-0.130	*	1571	-0.230
		15	MC	*	1110	-0.123	.	.	.	.	.	.	*	5405	-0.105	*	1571	-0.100
		25	CR	+	1110	0.173	+	8801	0.110	.	.	.	+	5405	0.145	.	.	.

1. Flag + = favoring and \* = disfavoring



Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	4	29	MC	*	1110	-0.200	*	8801	-0.128	*	2890	-0.102	*	5405	-0.163	*	1571	-0.107
		41	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	1571	0.100
		49	MC	.	.	.	.	.	.	+	2890	0.124	+	5405	0.110	.	.	.
		53	CR	+	1110	0.226	+	8801	0.125	.	.	.	+	5405	0.155	+	1571	0.185
	5	8	CR	+	1064	0.150	.	.	.	.	.	.	.	.	.	+	1652	0.217
		13	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1652	-0.106
		14	MC	+	1064	0.111	.	.	.	.	.	.	.	.	.	.	.	.
		16	MC	*	1064	-0.131	.	.	.	.	.	.	.	.	.	*	1652	-0.217
		30	CR	+	1064	0.146	+	8640	0.119	.	.	.	+	4619	0.135	+	1652	0.179
		42	MC	.	.	.	.	.	.	.	.	.	*	4619	-0.101	.	.	.
		52	CR	+	1064	0.159	.	.	.	.	.	.	+	4619	0.118	+	1652	0.195
		53	CR	+	1064	0.149	.	.	.	.	.	.	+	4619	0.135	.	.	.
	6	8	CR	+	544	0.145	.	.	.	.	.	.	.	.	.	+	1233	0.103
		11	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	1233	-0.127
		31	CR	+	544	0.156	+	8400	0.132	+	3829	0.106	+	3853	0.163	+	1233	0.124
		34	MC	*	544	-0.166	*	8400	-0.116	.	.	.	*	3853	-0.171	.	.	.
		52	CR	+	544	0.180	+	8400	0.124	.	.	.	+	3853	0.157	+	1233	0.204
		53	CR	.	.	.	.	.	.	.	.	.	+	3853	0.141	.	.	.
	7	8	CR	+	443	0.149	.	.	.	.	.	.	+	3517	0.114	+	1091	0.205
		11	CR	+	443	0.132	.	.	.	.	.	.	.	.	.	.	.	.
		21	CR	.	.	.	+	8190	0.100	.	.	.	+	3517	0.148	.	.	.
		46	MC	*	443	-0.143	*	8190	-0.114	.	.	.	*	3517	-0.173	.	.	.
		53	CR	.	.	.	.	.	.	.	.	.	+	3517	0.130	.	.	.

1. Flag + = favoring and \* = disfavoring

Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	8	3	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	943	-0.114
		7	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	943	-0.126
		8	CR	.	.	.	.	.	.	.	.	.	+	3118	0.111	.	.	.
		10	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	943	-0.117
		11	CR	+	428	0.178	+	7747	0.123	.	.	.	+	3118	0.163	+	943	0.165
		13	MC	+	428	0.102	.	.	.	.	.	.	.	.	.	+	943	0.121
		14	MC	*	428	-0.139	.	.	.	*	4103	-0.142	.	.	.	.	.	.
		15	MC	.	.	.	*	7747	-0.120	*	4103	-0.105	*	3118	-0.151	.	.	.
		25	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	943	-0.150
		28	CR	+	428	0.195	+	7747	0.130	+	4103	0.132	+	3118	0.145	.	.	.
		30	MC	.	.	.	.	.	.	.	.	.	.	.	.	*	943	-0.159
		32	MC	*	428	-0.117	.	.	.	.	.	.	.	.	.	.	.	.
		38	MC	*	428	-0.116	*	7747	-0.121	*	4103	-0.105	*	3118	-0.162	.	.	.
		53	CR	+	428	0.206	+	7747	0.118	+	4103	0.100	+	3118	0.160	.	.	.
	9	2	CR	+	311	0.160	.	.	.	.	.	.	.	.	.	+	1132	0.185
		4	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	1132	-0.104
		8	CR	.	.	.	.	.	.	.	.	.	+	2797	0.105	.	.	.
		12	MC	.	.	.	.	.	.	.	.	.	*	2797	-0.103	.	.	.
		13	MC	*	311	-0.108	*	7476	-0.104	.	.	.	*	2797	-0.108	*	1132	-0.152
		16	MC	*	311	-0.196	*	7476	-0.150	.	.	.	*	2797	-0.220	*	1132	-0.249
		24	CR	+	311	0.190	+	7476	0.120	+	3834	0.111	+	2797	0.159	.	.	.
		50	MC	.	.	.	.	.	.	*	3834	-0.116	.	.	.	.	.	.
		52	CR	+	311	0.176	+	7476	0.159	+	3834	0.128	+	2797	0.211	+	1132	0.145
		53	CR	+	311	0.138	+	7476	0.172	+	3834	0.164	+	2797	0.249	.	.	.

1. Flag + = favoring and \* = disfavoring

**Table 244. Items Flagged for DIF by Language Proficiency Focal Group (Concluded)**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	10	4	CR	+	202	0.246	+	6021	0.140	+	3025	0.101	+	2262	0.150	+	932	0.268
		6	CR	.	.	.	.	.	.	.	.	.	*	2262	-0.161	*	932	-0.157
		7	CR	.	.	.	.	.	.	.	.	.	.	.	.	*	932	-0.145
		33	CR	+	202	0.233	+	6021	0.185	+	3025	0.146	+	2262	0.278	+	932	0.107
		41	MC	*	202	-0.204	*	6021	-0.131	.	.	.	*	2262	-0.209	*	932	-0.211
		45	MC	.	.	.	.	.	.	.	.	.	*	2262	-0.104	.	.	.
		48	MC	.	.	.	.	.	.	.	.	.	.	.	.	+	932	0.106
		49	MC	*	202	-0.170	*	6021	-0.108	.	.	.	*	2262	-0.161	.	.	.
		53	CR	+	202	0.146	+	6021	0.139	+	3025	0.108	+	2262	0.200	+	932	0.101

1. Flag + = favoring and \* = disfavoring

**Table 245. Items Flagged for DIF by Education Plan Focal Group**

Content Area	Grade	Item #	Item Type	Education Plan Focal Group												
				504			GATE			IEP			Title 1			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Math-ematics	3	38	CR	.	.	.	.	.	.	.	+	5773	0.104	.	.	.
	4	46	CR	.	.	.	.	.	.	.	+	5745	0.110	.	.	.
	5	12	CR	.	.	.	.	.	.	.	+	5838	0.118	.	.	.
		44	CR	*	360	-0.117	.	.	.	.	.	.	.	.	.	.
		46	CR	.	.	.	.	.	.	.	+	5838	0.109	.	.	.
		69	CR	*	360	-0.120	.	.	.	.	.	.	.	.	.	.
	6	33	CR	.	.	.	.	.	.	.	*	5688	-0.129	.	.	.
		48	CR	.	.	.	.	.	.	.	+	5688	0.133	.	.	.
		60	CR	.	.	.	.	.	.	.	*	5688	-0.143	.	.	.
	7	60	CR	.	.	.	.	.	.	.	*	5429	-0.139	.	.	.
	8	27	MC	.	.	.	.	.	.	.	.	.	.	*	6363	-0.120
		29	MC	.	.	.	.	.	.	.	*	5023	-0.123	*	6363	-0.109
		60	CR	*	709	-0.140	.	.	.	.	.	.	.	+	6363	0.124
	9	40	CR	*	718	-0.146	.	.	.	.	*	4984	-0.134	+	2560	0.180
		54	CR	.	.	.	.	.	.	.	*	4984	-0.103	.	.	.
Reading	3	12	CR	*	183	-0.285	.	.	.	.	*	5634	-0.140	.	.	.
		18	CR	*	183	-0.174	.	.	.	.	.	.	.	.	.	.
	5	5	CR	*	362	-0.103	.	.	.	.	.	.	.	.	.	.
		24	CR	*	362	-0.189	.	.	.	.	.	.	.	.	.	.
		51	MC	+	362	0.110	.	.	.	.	.	.	.	.	.	.
		54	CR	*	362	-0.103	.	.	.	.	.	.	.	.	.	.
	6	26	CR	.	.	.	.	.	.	.	*	5648	-0.142	.	.	.
		64	CR	*	508	-0.171	.	.	.	.	.	.	.	.	.	.
	7	11	CR	*	570	-0.129	.	.	.	.	*	6365	-0.108	.	.	.
		29	CR	.	.	.	.	.	.	.	*	5407	-0.106	.	.	.
		38	CR	.	.	.	.	.	.	.	*	5407	-0.112	.	.	.
	8	10	CR	*	711	-0.172	.	.	.	.	.	.	.	+	6365	0.104
		24	CR	.	.	.	.	.	.	.	.	.	.	+	6365	0.103
		26	CR	.	.	.	.	.	.	.	*	5034	-0.125	.	.	.
		62	CR	*	711	-0.112	.	.	.	.	.	.	.	.	.	.
		65	CR	*	711	-0.139	.	.	.	.	.	.	.	+	6365	0.150
	9	2	CR	.	.	.	.	.	.	.	*	4923	-0.106	.	.	.
		10	CR	*	714	-0.107	.	.	.	.	.	.	.	.	.	.
		11	CR	.	.	.	.	.	.	.	.	.	.	+	2501	0.110
		22	CR	.	.	.	.	.	.	.	*	4923	-0.113	.	.	.
		34	MC	+	714	0.101	.	.	.	.	.	.	.	.	.	.
		41	CR	.	.	.	.	.	.	.	.	.	.	.	.	.
		44	CR	*	714	-0.151	.	.	.	.	.	.	.	.	.	.
		59	CR	.	.	.	.	.	.	.	.	.	.	+	2501	0.131
		60	CR	.	.	.	.	.	.	.	.	.	.	+	2501	0.104
	61	CR	*	714	-0.101	.	.	.	.	.	.	.	.	.	.	
	10	11	CR	.	.	.	.	.	.	.	.	.	.	+	1806	0.112
		27	CR	*	730	-0.104	.	.	.	.	.	.	.	.	.	.
		47	CR	*	730	-0.127	.	.	.	.	.	.	.	.	.	.

1. Flag + = favoring and \* = disfavoring

**Table 245. Items Flagged for DIF by Education Plan Focal Group (Concluded)**

Content Area	Grade	Item #	Item Type	Education Plan Focal Group												
				504			GATE			IEP			Title 1			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Science	5	41	CR	*	357	-0.113	.	.	.	.	.	.	.	.	.	
	8	22	CR	*	711	-0.181	.	.	.	*	5047	-0.282	+	5883	0.100	
		39	CR	*	711	-0.130	.	.	.	*	5047	-0.132	.	.	.	
		41	CR	.	.	.	+	6412	0.152	.	.	.	.	.	.	
	10	22	CR	*	735	-0.211	.	.	.	*	4318	-0.286	+	1861	0.149	
		23	CR	.	.	.	.	.	.	*	4318	-0.133	*	1861	-0.102	
		29	CR	.	.	.	.	.	.	+	4318	0.117	.	.	.	
		35	CR	.	.	.	.	.	.	*	4318	-0.117	.	.	.	
		68	MC	.	.	.	.	.	.	+	4318	0.108	.	.	.	
		71	CR	.	.	.	.	.	.	.	.	.	*	1861	-0.125	
Writing	3	7	MC	+	183	0.175	.	.	.	.	.	.	.	.	.	
		11	MC	+	183	0.108	.	.	.	.	.	.	.	.	.	
		23	MC	+	183	0.125	.	.	.	.	.	.	.	.	.	
	5	8	CR	*	362	-0.107	.	.	.	.	.	.	.	.	.	
	6	31	CR	*	507	-0.133	.	.	.	.	.	.	.	.	.	.
		52	CR	*	507	-0.146	.	.	.	.	.	.	.	.	.	.
		53	CR	*	507	-0.124	.	.	.	.	.	.	.	.	.	.
	7	21	CR	.	.	.	*	6352	-0.102	.	.	.	.	.	.	.
		53	CR	*	574	-0.126	.	.	.	.	.	.	.	.	.	.
	8	28	CR	.	.	.	.	.	.	.	.	.	.	+	6361	0.113
		53	CR	*	711	-0.128	.	.	.	.	.	.	.	.	.	.
	9	8	CR	.	.	.	.	.	.	.	.	.	.	+	2505	0.112
		52	CR	*	715	-0.144	.	.	.	.	.	.	.	.	.	.
		53	CR	*	715	-0.115	.	.	.	.	.	.	.	.	.	.
	10	4	CR	.	.	.	.	.	.	*	4253	-0.123	.	.	.	.
33		CR	*	729	-0.138	.	.	.	.	.	.	.	.	.	.	
53		CR	*	729	-0.118	.	.	.	.	.	.	.	.	.	.	
Spanish Reading	3	1	CR	.	.	.	+	56	0.431	.	.	.	.	.	.	
		29	MC	.	.	.	*	56	-0.155	.	.	.	.	.	.	
Spanish Writing	3	42	MC	.	.	.	.	.	.	*	105	-0.114	.	.	.	
		47	MC	.	.	.	.	.	.	*	105	-0.173	.	.	.	

1. Flag + = favoring and \* = disfavoring

**Table 246. Items Flagged for DIF by Homeless, Immigrant, and Migrant Focal Groups**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>								
				Homeless			Immigrant			Migrant		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	4	9	CR	*	702	-0.118	*	886	-0.270	*	650	-0.158
		14	CR	.	.	.	+	886	0.113	.	.	.
		18	MC	.	.	.	*	886	-0.121	.	.	.
		23	CR	.	.	.	*	886	-0.226	*	650	-0.167
		24	MC	.	.	.	.	.	.	*	650	-0.100
		28	MC	.	.	.	*	886	-0.103	.	.	.
		45	MC	.	.	.	*	886	-0.156	.	.	.
		46	CR	.	.	.	+	886	0.123	.	.	.
		56	CR	.	.	.	*	886	-0.162	.	.	.
		67	MC	.	.	.	+	886	0.128	.	.	.
		69	CR	.	.	.	+	886	0.231	+	650	0.229
	5	4	MC	.	.	.	*	857	-0.109	.	.	.
		9	CR	.	.	.	*	857	-0.164	*	620	-0.159
		15	CR	.	.	.	*	857	-0.203	.	.	.
		28	MC	.	.	.	+	857	0.119	.	.	.
		42	MC	.	.	.	+	857	0.129	.	.	.
		44	CR	.	.	.	+	857	0.101	.	.	.
		51	CR	.	.	.	+	857	0.167	.	.	.
		54	CR	.	.	.	*	857	-0.258	.	.	.
	6	69	CR	.	.	.	*	857	-0.170	.	.	.
		2	MC	.	.	.	*	794	-0.100	.	.	.
		5	CR	.	.	.	*	794	-0.196	.	.	.
		7	MC	.	.	.	*	794	-0.100	.	.	.
		8	CR	+	587	0.107	+	794	0.128	+	575	0.104
		22	MC	.	.	.	*	794	-0.206	*	575	-0.146
		23	CR	.	.	.	*	794	-0.121	.	.	.
		30	CR	*	587	-0.103	.	.	.	.	.	.
		37	CR	.	.	.	*	794	-0.170	*	575	-0.141
		44	CR	.	.	.	*	794	-0.107	.	.	.
		48	CR	.	.	.	+	794	0.197	.	.	.
		51	CR	.	.	.	+	794	0.178	+	575	0.138
		54	MC	.	.	.	+	794	0.112	.	.	.
	7	3	CR	.	.	.	+	766	0.107	.	.	.
		40	CR	.	.	.	+	766	0.112	.	.	.
		43	CR	.	.	.	*	766	-0.198	.	.	.
		53	CR	.	.	.	+	766	0.122	.	.	.
		60	CR	.	.	.	*	766	-0.179	.	.	.
	8	7	CR	.	.	.	*	787	-0.129	.	.	.
		18	MC	.	.	.	*	787	-0.104	.	.	.
		26	MC	.	.	.	*	787	-0.128	.	.	.
		27	MC	*	551	-0.121	*	787	-0.112	*	537	-0.130
		28	CR	.	.	.	*	787	-0.139	.	.	.
		29	MC	*	551	-0.110	.	.	.	*	537	-0.101
		40	CR	.	.	.	+	787	0.132	.	.	.
		53	CR	.	.	.	.	.	.	*	537	-0.139

1. Flag + = favoring and \* = disfavoring

**Table 246. Items Flagged for DIF by Homeless, Immigrant, and Migrant Focal Groups  
(Continued)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>								
				Homeless			Immigrant			Migrant		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	9	6	CR	.	.	.	+	846	0.117	+	460	0.116
		35	CR	.	.	.	*	846	-0.112	.	.	.
		47	MC	.	.	.	*	846	-0.146	*	460	-0.112
		54	CR	*	514	-0.104	*	846	-0.138	.	.	.
		60	CR	.	.	.	*	846	-0.134	.	.	.
	10	5	MC	.	.	.	+	739	0.126	.	.	.
		12	CR	.	.	.	+	739	0.136	+	351	0.171
		15	CR	.	.	.	*	739	-0.219	.	.	.
		26	MC	.	.	.	+	739	0.120	.	.	.
		27	CR	.	.	.	*	739	-0.117	.	.	.
		30	CR	.	.	.	*	739	-0.149	.	.	.
		34	MC	.	.	.	*	739	-0.100	.	.	.
		35	CR	.	.	.	*	739	-0.111	.	.	.
		40	CR	.	.	.	*	739	-0.123	.	.	.
Reading	3	15	CR	.	.	.	+	1217	0.227	+	591	0.217
		21	CR	.	.	.	+	1217	0.106	+	591	0.108
		27	CR	.	.	.	+	1217	0.181	+	591	0.119
		33	MC	.	.	.	*	1217	-0.120	*	591	-0.123
	4	14	CR	.	.	.	+	737	0.125	.	.	.
		22	MC	.	.	.	*	737	-0.107	.	.	.
		28	MC	.	.	.	*	737	-0.104	.	.	.
		37	CR	.	.	.	+	737	0.114	.	.	.
		53	MC	.	.	.	*	737	-0.135	.	.	.
		57	CR	.	.	.	+	737	0.114	+	602	0.124
		60	MC	.	.	.	.	.	.	*	602	-0.151
		63	CR	.	.	.	+	737	0.143	+	602	0.127
	5	10	CR	.	.	.	*	839	-0.111	.	.	.
		14	CR	.	.	.	.	.	.	*	625	-0.121
		51	MC	.	.	.	.	.	.	*	625	-0.138
		52	MC	.	.	.	.	.	.	+	625	0.111
		54	CR	.	.	.	+	839	0.157	.	.	.
		62	MC	.	.	.	*	839	-0.152	.	.	.
	6	25	MC	.	.	.	*	781	-0.103	.	.	.
		26	CR	.	.	.	+	781	0.153	+	567	0.228
		38	MC	.	.	.	.	.	.	*	567	-0.111
		57	MC	.	.	.	*	781	-0.119	.	.	.
		62	MC	.	.	.	+	781	0.124	.	.	.
	7	1	CR	.	.	.	+	755	0.241	+	551	0.128
		2	CR	.	.	.	+	755	0.222	+	551	0.109
		10	MC	.	.	.	+	755	0.117	.	.	.
		23	MC	.	.	.	*	755	-0.187	.	.	.
		29	CR	.	.	.	*	755	-0.241	.	.	.
		31	MC	.	.	.	.	.	.	*	551	-0.131
		38	CR	.	.	.	+	755	0.155	.	.	.
		39	CR	.	.	.	+	755	0.223	+	551	0.127

1. Flag + = favoring and \* = disfavoring

**Table 246. Items Flagged for DIF by Homeless, Immigrant, and Migrant Focal Groups  
(Continued)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>								
				Homeless			Immigrant			Migrant		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	8	10	CR	.	.	.	+	775	0.136	+	532	0.204
		11	CR	.	.	.	+	775	0.256	.	.	.
		24	CR	.	.	.	+	775	0.231	+	532	0.140
		25	CR	.	.	.	+	775	0.172	.	.	.
		26	CR	.	.	.	*	775	-0.136	.	.	.
		27	MC	.	.	.	*	775	-0.109	.	.	.
		34	CR	.	.	.	+	775	0.266	+	532	0.161
		35	CR	.	.	.	+	775	0.164	+	532	0.153
		44	CR	.	.	.	*	775	-0.115	*	532	-0.100
		45	CR	.	.	.	*	775	-0.129	.	.	.
		49	MC	.	.	.	*	775	-0.102	.	.	.
		52	MC	.	.	.	+	775	0.105	.	.	.
		55	MC	.	.	.	.	.	.	*	532	-0.118
		62	CR	.	.	.	+	775	0.130	+	532	0.135
		65	CR	+	552	0.139	.	.	.	+	532	0.189
		67	MC	.	.	.	.	.	.	*	532	-0.132
	9	2	CR	.	.	.	*	829	-0.232	*	455	-0.158
		4	MC	.	.	.	*	829	-0.126	.	.	.
		7	MC	.	.	.	*	829	-0.136	*	455	-0.111
		10	CR	.	.	.	+	829	0.115	+	455	0.168
		11	CR	.	.	.	+	829	0.240	+	455	0.165
		26	MC	.	.	.	*	829	-0.128	.	.	.
		30	CR	.	.	.	*	829	-0.108	.	.	.
		34	MC	.	.	.	*	829	-0.135	*	455	-0.159
		42	MC	.	.	.	*	829	-0.109	*	455	-0.179
		43	MC	.	.	.	+	829	0.129	+	455	0.139
		44	CR	.	.	.	+	829	0.343	+	455	0.244
		55	CR	.	.	.	+	829	0.145	.	.	.
		56	MC	.	.	.	*	829	-0.100	.	.	.
		59	CR	.	.	.	+	829	0.211	+	455	0.184
		60	CR	.	.	.	+	829	0.354	+	455	0.252
		61	CR	.	.	.	+	829	0.166	.	.	.
	10	2	MC	.	.	.	*	724	-0.110	.	.	.
		7	CR	+	342	0.146	.	.	.	+	349	0.141
		11	CR	.	.	.	+	724	0.154	.	.	.
		28	MC	.	.	.	*	724	-0.181	*	349	-0.117
		43	CR	.	.	.	+	724	0.112	.	.	.
		46	CR	.	.	.	+	724	0.103	+	349	0.143
		47	CR	.	.	.	+	724	0.346	+	349	0.286
		48	CR	.	.	.	.	.	.	+	349	0.127
		66	MC	.	.	.	.	.	.	*	349	-0.166
		68	MC	.	.	.	.	.	.	*	349	-0.122
		69	MC	.	.	.	*	724	-0.129	*	349	-0.168
		70	CR	.	.	.	*	724	-0.146	.	.	.

1. Flag + = favoring and \* = disfavoring



**Table 246. Items Flagged for DIF by Homeless, Immigrant, and Migrant Focal Groups  
(Continued)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>								
				Homeless			Immigrant			Migrant		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Science	5	25	CR	.	.	.	+	851	0.110	+	622	0.117
		28	CR	.	.	.	*	851	-0.106	*	622	-0.110
		46	CR	.	.	.	*	851	-0.269	*	622	-0.190
		64	CR	.	.	.	*	851	-0.171	.	.	.
	8	2	CR	.	.	.	+	783	0.146	.	.	.
		22	CR	.	.	.	+	783	0.260	+	535	0.191
		41	CR	.	.	.	.	.	.	+	535	0.105
		44	MC	.	.	.	.	.	.	*	535	-0.114
		49	CR	.	.	.	*	783	-0.112	.	.	.
		66	CR	.	.	.	*	783	-0.245	.	.	.
	10	22	CR	.	.	.	+	739	0.211	+	355	0.222
		23	CR	.	.	.	*	739	-0.187	.	.	.
		26	CR	.	.	.	+	739	0.125	.	.	.
		35	CR	.	.	.	*	739	-0.159	.	.	.
		39	MC	.	.	.	+	739	0.105	+	355	0.128
		40	CR	.	.	.	*	739	-0.159	.	.	.
		71	CR	.	.	.	*	739	-0.308	*	355	-0.294
		76	MC	.	.	.	+	739	0.118	.	.	.
Writing	3	7	MC	.	.	.	.	.	.	*	584	-0.133
		11	MC	.	.	.	*	1211	-0.240	*	584	-0.263
		14	MC	.	.	.	*	1211	-0.187	*	584	-0.186
		23	MC	.	.	.	*	1211	-0.149	*	584	-0.163
		24	MC	.	.	.	.	.	.	*	584	-0.113
		52	CR	.	.	.	.	.	.	+	584	0.113
	4	4	CR	.	.	.	+	734	0.138	+	604	0.113
		8	CR	.	.	.	+	734	0.143	+	604	0.101
		11	CR	.	.	.	+	734	0.129	+	604	0.162
		13	MC	.	.	.	*	734	-0.252	*	604	-0.186
		14	MC	.	.	.	*	734	-0.223	*	604	-0.160
		15	MC	.	.	.	*	734	-0.123	*	604	-0.116
		29	MC	.	.	.	*	734	-0.139	*	604	-0.139
		52	MC	.	.	.	.	.	.	*	604	-0.116
		53	CR	.	.	.	+	734	0.128	+	604	0.162
	5	8	CR	.	.	.	+	842	0.134	+	621	0.162
		16	MC	.	.	.	*	842	-0.224	*	621	-0.116
		30	CR	.	.	.	+	842	0.133	+	621	0.132
		34	MC	.	.	.	.	.	.	*	621	-0.105
		53	CR	.	.	.	.	.	.	+	621	0.102
	6	11	MC	.	.	.	*	781	-0.154	.	.	.
		25	MC	.	.	.	+	781	0.116	.	.	.
		31	CR	.	.	.	+	781	0.120	+	569	0.189
		34	MC	.	.	.	*	781	-0.117	*	569	-0.149
		47	MC	.	.	.	+	781	0.112	.	.	.
		52	CR	.	.	.	+	781	0.169	+	569	0.133
		53	CR	.	.	.	.	.	.	+	569	0.111

1. Flag + = favoring and \* = disfavoring

**Table 246. Items Flagged for DIF by Homeless, Immigrant, and Migrant Focal Groups  
(Concluded)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>								
				Homeless			Immigrant			Migrant		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	7	8	CR	.	.	.	+	753	0.135	+	548	0.151
		21	CR	.	.	.	.	.	.	+	548	0.102
		46	MC	.	.	.	*	753	-0.112	*	548	-0.134
		53	CR	.	.	.	.	.	.	+	548	0.157
	8	6	CR	.	.	.	+	774	0.117	.	.	.
		10	CR	.	.	.	*	774	-0.110	.	.	.
		11	CR	+	552	0.125	+	774	0.115	+	534	0.172
		13	MC	.	.	.	+	774	0.138	.	.	.
		15	MC	.	.	.	*	774	-0.108	*	534	-0.148
		25	MC	.	.	.	*	774	-0.133	.	.	.
		28	CR	+	552	0.134	.	.	.	+	534	0.101
		30	MC	.	.	.	*	774	-0.188	*	534	-0.115
		36	MC	.	.	.	+	774	0.107	.	.	.
		38	MC	*	552	-0.114	*	774	-0.146	*	534	-0.126
		48	MC	.	.	.	+	774	0.123	.	.	.
		49	MC	.	.	.	+	774	0.116	.	.	.
		53	CR	.	.	.	.	.	.	+	534	0.178
	9	2	CR	.	.	.	+	826	0.237	+	452	0.154
		11	MC	.	.	.	*	826	-0.102	.	.	.
		13	MC	.	.	.	*	826	-0.136	*	452	-0.131
		16	MC	.	.	.	*	826	-0.267	*	452	-0.224
		24	CR	.	.	.	.	.	.	+	452	0.142
		51	MC	.	.	.	+	826	0.110	.	.	.
		52	CR	.	.	.	+	826	0.128	+	452	0.247
	10	53	CR	.	.	.	.	.	.	+	452	0.208
		4	CR	.	.	.	+	721	0.300	+	351	0.278
		6	CR	.	.	.	*	721	-0.155	*	351	-0.124
		7	CR	.	.	.	*	721	-0.113	.	.	.
		31	MC	.	.	.	+	721	0.105	.	.	.
		33	CR	.	.	.	.	.	.	+	351	0.121
		41	MC	.	.	.	*	721	-0.202	*	351	-0.215
		49	MC	.	.	.	*	721	-0.119	*	351	-0.168
		53	CR	.	.	.	.	.	.	+	351	0.155
Spanish Reading	3	27	MC	*	66	-0.120	.	.	.	.	.	.
Spanish Writing	3	36	CR	.	.	.	.	.	.	+	101	0.116

1. Flag + = favoring and \* = disfavoring

**Table 247. Inter-correlation among Content Areas  
(Scale Scores)**

Grade	Content Area	Reading	Writing	Mathematics	Science
3	Reading	1.000	0.763	0.706	
	Writing	0.763	1.000	0.749	
	Mathematics	0.706	0.749	1.000	
4	Reading	1.000	0.816	0.758	
	Writing	0.816	1.000	0.760	
	Mathematics	0.758	0.760	1.000	
5	Reading	1.000	0.825	0.784	0.842
	Writing	0.825	1.000	0.780	0.769
	Mathematics	0.784	0.780	1.000	0.813
	Science	0.842	0.769	0.813	1.000
6	Reading	1.000	0.822	0.759	
	Writing	0.822	1.000	0.769	
	Mathematics	0.759	0.769	1.000	
7	Reading	1.000	0.832	0.775	
	Writing	0.832	1.000	0.775	
	Mathematics	0.775	0.775	1.000	
8	Reading	1.000	0.853	0.796	0.857
	Writing	0.853	1.000	0.770	0.795
	Mathematics	0.796	0.770	1.000	0.860
	Science	0.857	0.795	0.860	1.000
9	Reading	1.000	0.851	0.793	
	Writing	0.851	1.000	0.776	
	Mathematics	0.793	0.776	1.000	
10	Reading	1.000	0.843	0.770	0.818
	Writing	0.843	1.000	0.766	0.774
	Mathematics	0.770	0.766	1.000	0.858
	Science	0.818	0.774	0.858	1.000

**Table 248. Inter-correlation among Content Areas  
(Percentile Ranks)**

<b>Grade</b>	<b>Content Area</b>	<b>Reading</b>	<b>Writing</b>	<b>Mathematics</b>	<b>Science</b>
3	Reading	1.000	0.788	0.742	
	Writing	0.788	1.000	0.763	
	Mathematics	0.742	0.763	1.000	
4	Reading	1.000	0.857	0.779	
	Writing	0.857	1.000	0.769	
	Mathematics	0.779	0.769	1.000	
5	Reading	1.000	0.843	0.797	0.867
	Writing	0.843	1.000	0.785	0.771
	Mathematics	0.797	0.785	1.000	0.815
	Science	0.867	0.771	0.815	1.000
6	Reading	1.000	0.841	0.768	
	Writing	0.841	1.000	0.765	
	Mathematics	0.768	0.765	1.000	
7	Reading	1.000	0.861	0.803	
	Writing	0.861	1.000	0.785	
	Mathematics	0.803	0.785	1.000	
8	Reading	1.000	0.876	0.808	0.864
	Writing	0.876	1.000	0.787	0.804
	Mathematics	0.808	0.787	1.000	0.866
	Science	0.864	0.804	0.866	1.000
9	Reading	1.000	0.883	0.814	
	Writing	0.883	1.000	0.788	
	Mathematics	0.814	0.788	1.000	
10	Reading	1.000	0.876	0.793	0.835
	Writing	0.876	1.000	0.768	0.771
	Mathematics	0.793	0.768	1.000	0.866
	Science	0.835	0.771	0.866	1.000

**Table 249. Inter-correlation with Demographic Variables**

<b>Content Area</b>	<b>Grade</b>	<b>Language</b>	<b>Age</b>	<b>Gender</b>	<b>Am. Indian/ AK Nat.</b>	<b>Asian</b>	<b>Black</b>	<b>Hispanic</b>
Mathematics	3	English	-0.047	0.003	-0.036	0.067	-0.126	-0.306
Mathematics	4	English	-0.101	0.025	-0.037	0.081	-0.127	-0.300
Mathematics	5	English	-0.127	0.004	-0.034	0.080	-0.136	-0.289
Mathematics	6	English	-0.156	0.009	-0.036	0.081	-0.130	-0.305
Mathematics	7	English	-0.166	-0.005	-0.034	0.081	-0.144	-0.300
Mathematics	8	English	-0.179	0.003	-0.035	0.071	-0.154	-0.312
Mathematics	9	English	-0.252	-0.003	-0.034	0.064	-0.161	-0.321
Mathematics	10	English	-0.217	0.024	-0.039	0.065	-0.160	-0.309
Reading	3	English	-0.063	-0.070	-0.041	0.032	-0.094	-0.286
Reading	4	English	-0.103	-0.104	-0.032	0.044	-0.103	-0.325
Reading	5	English	-0.124	-0.099	-0.027	0.037	-0.107	-0.325
Reading	6	English	-0.145	-0.099	-0.030	0.036	-0.113	-0.337
Reading	7	English	-0.162	-0.106	-0.030	0.037	-0.107	-0.337
Reading	8	English	-0.169	-0.120	-0.033	0.030	-0.122	-0.336
Reading	9	English	-0.226	-0.130	-0.030	0.027	-0.119	-0.330
Reading	10	English	-0.217	-0.173	-0.033	0.022	-0.113	-0.306
Reading	3	Spanish	-0.036	-0.139	-0.015		0.055	-0.035
Reading	4	Spanish	-0.204	-0.076				0.009
Science	5	English	-0.090	0.041	-0.028	0.037	-0.139	-0.378
Science	8	English	-0.159	0.019	-0.035	0.038	-0.160	-0.357
Science	10	English	-0.205	0.049	-0.037	0.024	-0.149	-0.357
Writing	3	English	-0.075	-0.155	-0.044	0.039	-0.103	-0.284
Writing	4	English	-0.104	-0.152	-0.036	0.058	-0.103	-0.316
Writing	5	English	-0.127	-0.194	-0.037	0.057	-0.105	-0.298
Writing	6	English	-0.156	-0.195	-0.033	0.055	-0.100	-0.308
Writing	7	English	-0.173	-0.213	-0.032	0.061	-0.100	-0.305
Writing	8	English	-0.180	-0.208	-0.032	0.043	-0.112	-0.313
Writing	9	English	-0.241	-0.210	-0.032	0.038	-0.113	-0.323
Writing	10	English	-0.223	-0.211	-0.038	0.040	-0.113	-0.301
Writing	3	Spanish	-0.074	-0.193	0.003		0.020	-0.055
Writing	4	Spanish	-0.185	-0.135				-0.028

**Table 250. Predictive Validity Coefficients**

<b>Content Area</b>	<b>Grade in 2006</b>	<b>Grade in 2007</b>	<b>Number Matched</b>	<b>Reliability 2006</b>	<b>Reliability 2007</b>	<b>Correlation <math>r_{2005-2006}</math></b>	<b>Validity Coefficient</b>
Mathematics	3	4	52727	0.90	0.94	0.81	0.88
Mathematics	4	5	52881	0.94	0.94	0.86	0.92
Mathematics	5	6	52474	0.94	0.94	0.87	0.93
Mathematics	6	7	52745	0.94	0.93	0.89	0.95
Mathematics	7	8	53327	0.93	0.93	0.90	0.97
Mathematics	8	9	52196	0.93	0.93	0.89	0.96
Mathematics	9	10	49790	0.93	0.93	0.89	0.96
Reading	3	4	50656	0.89	0.93	0.82	0.90
Reading	4	5	52306	0.92	0.93	0.86	0.93
Reading	5	6	52001	0.93	0.93	0.84	0.91
Reading	6	7	52433	0.93	0.93	0.87	0.94
Reading	7	8	53419	0.93	0.93	0.88	0.94
Reading	8	9	52366	0.93	0.93	0.87	0.93
Reading	9	10	50075	0.93	0.93	0.85	0.92
Spanish Reading	3	4	129	0.86	0.92	0.77	0.86
Writing	3	4	51144	0.91	0.92	0.77	0.84
Writing	4	5	52539	0.91	0.91	0.81	0.89
Writing	5	6	52478	0.92	0.91	0.83	0.90
Writing	6	7	52887	0.91	0.91	0.84	0.93
Writing	7	8	53679	0.91	0.91	0.85	0.94
Writing	8	9	52672	0.92	0.92	0.85	0.93
Writing	9	10	50341	0.93	0.92	0.85	0.92
Spanish Writing	3	4	135	0.91	0.86	0.72	0.81

**Table 251. Classification Consistency and Classification Accuracy for Mathematics Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0595	0.0207	0.0001	0.0000	0.0803
Partially Proficient	0.0207	0.1677	0.0523	0.0001	0.2409
Proficient	0.0001	0.0540	0.2937	0.0600	0.4078
Advanced	0.0000	0.0001	0.0636	0.2073	0.2711
Sum	0.0803	0.2425	0.4097	0.2675	1.0000
Observed Score Dist.	0.0742	0.2409	0.4309	0.2540	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9585	0.8933	0.8760	0.7283
Chance Probability ( $P_c$ )	0.8523	0.5634	0.6065	0.3044
Kappa	0.7189	0.7556	0.6850	0.6093
Classification Accuracy	0.9709	0.9259	0.9113	0.8081

**Table 252. Classification Consistency and Classification Accuracy for Mathematics Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0726	0.0164	0.0001	0.0000	0.0891
Partially Proficient	0.0154	0.1562	0.0341	0.0000	0.2057
Proficient	0.0000	0.0380	0.3366	0.0463	0.4210
Advanced	0.0000	0.0000	0.0505	0.2338	0.2843
Sum	0.0880	0.2106	0.4213	0.2801	1.0000
Observed Score Dist.	0.0860	0.2063	0.4339	0.2738	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9681	0.9278	0.9032	0.7992
Chance Probability ( $P_c$ )	0.8386	0.5827	0.5949	0.3081
Kappa	0.8023	0.8270	0.7610	0.7098
Classification Accuracy	0.9775	0.9487	0.9318	0.8580



**Table 253. Classification Consistency and Classification Accuracy for Mathematics Grade 5****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0914	0.0189	0.0000	0.0000	0.1103
Partially Proficient	0.0196	0.1846	0.0321	0.0000	0.2363
Proficient	0.0000	0.0400	0.2675	0.0420	0.3495
Advanced	0.0000	0.0000	0.0455	0.2584	0.3039
Sum	0.1110	0.2435	0.3452	0.3004	1.000
Observed Score Dist.	0.1065	0.2435	0.3532	0.2968	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9616	0.9279	0.9125	0.8019
Chance Probability ( $P_c$ )	0.8032	0.5447	0.5783	0.2817
Kappa	0.8046	0.8416	0.7924	0.7242
Classification Accuracy	0.9719	0.9510	0.9361	0.8591

**Table 254. Classification Consistency and Classification Accuracy for Mathematics Grade 6****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1071	0.0260	0.0000	0.0000	0.1331
Partially Proficient	0.0263	0.1973	0.0410	0.0000	0.2646
Proficient	0.0000	0.0426	0.2676	0.0364	0.3466
Advanced	0.0000	0.0000	0.0376	0.2181	0.2557
Sum	0.1334	0.2659	0.3462	0.2545	1.0000
Observed Score Dist.	0.1293	0.2661	0.3552	0.2495	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9477	0.9164	0.9260	0.7901
Chance Probability ( $P_c$ )	0.7690	0.5206	0.6200	0.2732
Kappa	0.7737	0.8255	0.8053	0.7112
Classification Accuracy	0.9614	0.9387	0.9499	0.8499

**Table 255. Classification Consistency and Classification Accuracy for Mathematics Grade 7****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1184	0.0302	0.0000	0.0000	0.1486
Partially Proficient	0.0352	0.2634	0.0417	0.0001	0.3404
Proficient	0.0000	0.0427	0.2209	0.0317	0.2954
Advanced	0.0000	0.0000	0.0311	0.1845	0.2156
Sum	0.1536	0.3363	0.2937	0.2164	1.0000
Observed Score Dist.	0.1437	0.3488	0.2970	0.2105	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9346	0.9155	0.9370	0.7872
Chance Probability ( $P_c$ )	0.7434	0.5002	0.6613	0.2707
Kappa	0.7449	0.8309	0.8140	0.7082
Classification Accuracy	0.9516	0.9379	0.9555	0.8450

**Table 256. Classification Consistency and Classification Accuracy for Mathematics Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1913	0.0396	0.0001	0.0000	0.2310
Partially Proficient	0.0356	0.2294	0.0396	0.0001	0.3047
Proficient	0.0000	0.0428	0.2179	0.0266	0.2874
Advanced	0.0000	0.0000	0.0278	0.1492	0.1769
Sum	0.2269	0.3118	0.2854	0.1759	1.0000
Observed Score Dist.	0.2249	0.3132	0.2904	0.1716	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9247	0.9174	0.9455	0.7878
Chance Probability ( $P_c$ )	0.6469	0.5028	0.7094	0.2606
Kappa	0.7867	0.8338	0.8124	0.7130
Classification Accuracy	0.9471	0.9401	0.9621	0.8493

**Table 257. Classification Consistency and Classification Accuracy for Mathematics Grade 9****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2932	0.0461	0.0000	0.0000	0.3393
Partially Proficient	0.0526	0.2066	0.0425	0.0000	0.3017
Proficient	0.0001	0.0376	0.1787	0.0240	0.2404
Advanced	0.0000	0.0000	0.0210	0.0976	0.1186
Sum	0.3460	0.2903	0.2422	0.1216	1.0000
Observed Score Dist.	0.3394	0.3021	0.2424	0.1161	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9012	0.9197	0.9550	0.7761
Chance Probability ( $P_c$ )	0.5495	0.5384	0.7887	0.2776
Kappa	0.7806	0.8261	0.7872	0.6900
Classification Accuracy	0.9305	0.9416	0.9701	0.8422

**Table 258. Classification Consistency and Classification Accuracy for Mathematics Grade 10****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2920	0.0460	0.0000	0.0000	0.3379
Partially Proficient	0.0465	0.2623	0.0364	0.0000	0.3452
Proficient	0.0000	0.0392	0.2087	0.0138	0.2617
Advanced	0.0000	0.0000	0.0140	0.0411	0.0551
Sum	0.3385	0.3475	0.2592	0.0549	1.0000
Observed Score Dist.	0.3366	0.3509	0.2607	0.0518	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9075	0.9244	0.9722	0.8041
Chance Probability ( $P_c$ )	0.5524	0.5681	0.8961	0.3052
Kappa	0.7935	0.8249	0.7322	0.7180
Classification Accuracy	0.9345	0.9490	0.9818	0.8652

**Table 259. Classification Consistency and Classification Accuracy for Reading Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0846	0.0213	0.0006	0.0000	0.1065
Partially Proficient	0.0193	0.1150	0.0495	0.0000	0.1838
Proficient	0.0005	0.0510	0.5268	0.0419	0.6202
Advanced	0.0000	0.0000	0.0360	0.0535	0.0895
Sum	0.1044	0.1873	0.6129	0.0954	1.0000
Observed Score Dist.	0.0983	0.1871	0.6450	0.0696	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9583	0.8985	0.9221	0.7800
Chance Probability ( $P_c$ )	0.8113	0.5873	0.8322	0.4342
Kappa	0.7791	0.7540	0.5361	0.6112
Classification Accuracy	0.9708	0.9245	0.9478	0.8432

**Table 260. Classification Consistency and Classification Accuracy for Reading Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1183	0.0211	0.0000	0.0000	0.1394
Partially Proficient	0.0220	0.1554	0.0398	0.0000	0.2172
Proficient	0.0001	0.0438	0.4886	0.0310	0.5634
Advanced	0.0000	0.0000	0.0311	0.0490	0.0800
Sum	0.1404	0.2203	0.5594	0.0799	1.0000
Observed Score Dist.	0.1346	0.2211	0.5796	0.0647	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9568	0.9163	0.9380	0.8111
Chance Probability ( $P_c$ )	0.7594	0.5400	0.8529	0.3890
Kappa	0.8203	0.8180	0.5784	0.6909
Classification Accuracy	0.9698	0.9390	0.9596	0.8685



**Table 261. Classification Consistency and Classification Accuracy for Reading Grade 5****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1108	0.0205	0.0001	0.0000	0.1314
Partially Proficient	0.0193	0.1239	0.0395	0.0000	0.1827
Proficient	0.0002	0.0406	0.5061	0.0332	0.5801
Advanced	0.0000	0.0000	0.0328	0.0730	0.1058
Sum	0.1304	0.1850	0.5784	0.1062	1.0000
Observed Score Dist.	0.1272	0.1842	0.5965	0.0921	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9599	0.9196	0.9340	0.8138
Chance Probability ( $P_c$ )	0.7725	0.5687	0.8104	0.3977
Kappa	0.8236	0.8136	0.6521	0.6909
Classification Accuracy	0.9716	0.9444	0.9528	0.8688

**Table 262. Classification Consistency and Classification Accuracy for Reading Grade 6****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0892	0.0173	0.0001	0.0000	0.1066
Partially Proficient	0.0177	0.1378	0.0349	0.0000	0.1904
Proficient	0.0001	0.0396	0.5033	0.0364	0.5794
Advanced	0.0000	0.0000	0.0348	0.0888	0.1236
Sum	0.1070	0.1947	0.5732	0.1252	1.0000
Observed Score Dist.	0.1033	0.1909	0.5891	0.1168	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9648	0.9252	0.9288	0.8190
Chance Probability ( $P_c$ )	0.8092	0.5805	0.7822	0.3960
Kappa	0.8154	0.8218	0.6729	0.7003
Classification Accuracy	0.9741	0.9456	0.9512	0.8709

**Table 263. Classification Consistency and Classification Accuracy for Reading Grade 7****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1130	0.0227	0.0001	0.0000	0.1359
Partially Proficient	0.0211	0.1493	0.0391	0.0000	0.2095
Proficient	0.0000	0.0429	0.4818	0.0308	0.5555
Advanced	0.0000	0.0000	0.0319	0.0672	0.0991
Sum	0.1342	0.2149	0.5530	0.0979	1.0000
Observed Score Dist.	0.1309	0.2112	0.5720	0.0859	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9560	0.9179	0.9373	0.8114
Chance Probability ( $P_c$ )	0.7664	0.5467	0.8224	0.3801
Kappa	0.8118	0.8190	0.6469	0.6957
Classification Accuracy	0.9682	0.9404	0.9579	0.8665

**Table 264. Classification Consistency and Classification Accuracy for Reading Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1018	0.0243	0.0002	0.0000	0.1263
Partially Proficient	0.0245	0.1647	0.0460	0.0000	0.2351
Proficient	0.0000	0.0461	0.4705	0.0307	0.5473
Advanced	0.0000	0.0000	0.0301	0.0612	0.0913
Sum	0.1263	0.2350	0.5468	0.0919	1.0000
Observed Score Dist.	0.1232	0.2379	0.5586	0.0803	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9510	0.9078	0.9392	0.7981
Chance Probability ( $P_c$ )	0.7793	0.5384	0.8336	0.3788
Kappa	0.7778	0.8002	0.6347	0.6750
Classification Accuracy	0.9661	0.9365	0.9581	0.8608

**Table 265. Classification Consistency and Classification Accuracy for Reading Grade 9****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0667	0.0167	0.0000	0.0000	0.0833
Partially Proficient	0.0171	0.1826	0.0393	0.0000	0.2390
Proficient	0.0000	0.0416	0.5697	0.0172	0.6286
Advanced	0.0000	0.0000	0.0184	0.0308	0.0491
Sum	0.0837	0.2409	0.6274	0.0480	1.0000
Observed Score Dist.	0.0799	0.2411	0.6395	0.0396	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9662	0.9192	0.9644	0.8498
Chance Probability ( $P_c$ )	0.8469	0.5623	0.9076	0.4612
Kappa	0.7795	0.8153	0.6148	0.7212
Classification Accuracy	0.9760	0.9427	0.9749	0.8936

**Table 266. Classification Consistency and Classification Accuracy for Reading Grade 10****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0725	0.0161	0.0000	0.0000	0.0886
Partially Proficient	0.0159	0.1533	0.0327	0.0000	0.2019
Proficient	0.0000	0.0363	0.5344	0.0315	0.6022
Advanced	0.0000	0.0000	0.0322	0.0751	0.1073
Sum	0.0884	0.2057	0.5993	0.1066	1.0000
Observed Score Dist.	0.0869	0.2006	0.6197	0.0929	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9680	0.9310	0.9363	0.8352
Chance Probability ( $P_c$ )	0.8386	0.5862	0.8090	0.4217
Kappa	0.8015	0.8331	0.6664	0.7151
Classification Accuracy	0.9774	0.9495	0.9539	0.8808

**Table 267. Classification Consistency and Classification Accuracy for Science Grade 5****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1643	0.0305	0.0000	0.0000	0.1948
Partially Proficient	0.0308	0.3007	0.0575	0.0007	0.3897
Proficient	0.0000	0.0497	0.1769	0.0419	0.2685
Advanced	0.0000	0.0013	0.0437	0.1020	0.1470
Sum	0.1951	0.3823	0.2780	0.1446	1.0000
Observed Score Dist.	0.1923	0.3887	0.2859	0.1331	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9387	0.8908	0.9124	0.7439
Chance Probability ( $P_c$ )	0.6861	0.5131	0.7509	0.2829
Kappa	0.8047	0.7757	0.6483	0.6429
Classification Accuracy	0.9568	0.9217	0.9405	0.8192

**Table 268. Classification Consistency and Classification Accuracy for Science Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1741	0.0350	0.0007	0.0000	0.2097
Partially Proficient	0.0302	0.1921	0.0472	0.0000	0.2696
Proficient	0.0001	0.0490	0.3598	0.0252	0.4341
Advanced	0.0000	0.0000	0.0228	0.0638	0.0866
Sum	0.2044	0.2761	0.4306	0.0889	1.0000
Observed Score Dist.	0.2020	0.2753	0.4442	0.0785	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9340	0.9030	0.9520	0.7898
Chance Probability ( $P_c$ )	0.6716	0.5008	0.8399	0.3119
Kappa	0.7991	0.8057	0.7001	0.6945
Classification Accuracy	0.9519	0.9278	0.9677	0.8475



**Table 269. Classification Consistency and Classification Accuracy for Science Grade 10****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2269	0.0337	0.0001	0.0000	0.2607
Partially Proficient	0.0325	0.1660	0.0497	0.0000	0.2481
Proficient	0.0002	0.0464	0.3769	0.0163	0.4399
Advanced	0.0000	0.0000	0.0166	0.0347	0.0513
Sum	0.2597	0.2460	0.4433	0.0510	1.0000
Observed Score Dist.	0.2580	0.2489	0.4495	0.0436	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9335	0.9035	0.9671	0.8045
Chance Probability ( $P_c$ )	0.6150	0.5001	0.9030	0.3264
Kappa	0.8272	0.8070	0.6613	0.7098
Classification Accuracy	0.9529	0.9332	0.9775	0.8635

**Table 270. Classification Consistency and Classification Accuracy for Writing Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0467	0.0140	0.0000	0.0000	0.0607
Partially Proficient	0.0133	0.3208	0.0621	0.0000	0.3962
Proficient	0.0000	0.0581	0.3282	0.0453	0.4317
Advanced	0.0000	0.0000	0.0444	0.0670	0.1114
Sum	0.0600	0.3929	0.4348	0.1123	1.0000
Observed Score Dist.	0.0561	0.3991	0.4572	0.0877	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9727	0.8797	0.9103	0.7627
Chance Probability ( $P_c$ )	0.8866	0.5041	0.8013	0.3595
Kappa	0.7595	0.7575	0.5484	0.6295
Classification Accuracy	0.9806	0.9120	0.9384	0.8310

**Table 271. Classification Consistency and Classification Accuracy for Writing Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0691	0.0194	0.0000	0.0000	0.0885
Partially Proficient	0.0190	0.3428	0.0602	0.0000	0.4220
Proficient	0.0000	0.0625	0.2948	0.0334	0.3907
Advanced	0.0000	0.0001	0.0373	0.0614	0.0988
Sum	0.0881	0.4248	0.3923	0.0948	1.0000
Observed Score Dist.	0.0846	0.4261	0.4129	0.0765	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9616	0.8772	0.9291	0.7681
Chance Probability ( $P_c$ )	0.8390	0.5003	0.8252	0.3497
Kappa	0.7615	0.7543	0.5947	0.6433
Classification Accuracy	0.9713	0.9138	0.9509	0.8360

**Table 272. Classification Consistency and Classification Accuracy for Writing Grade 5****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0399	0.0164	0.0000	0.0000	0.0563
Partially Proficient	0.0145	0.3056	0.0515	0.0000	0.3716
Proficient	0.0000	0.0555	0.3656	0.0341	0.4552
Advanced	0.0000	0.0001	0.0380	0.0788	0.1169
Sum	0.0545	0.3776	0.4551	0.1128	1.0000
Observed Score Dist.	0.0502	0.3763	0.4753	0.0982	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9691	0.8929	0.9278	0.7899
Chance Probability ( $P_c$ )	0.8954	0.5098	0.7967	0.3637
Kappa	0.7047	0.7814	0.6449	0.6698
Classification Accuracy	0.9768	0.9210	0.9499	0.8478

**Table 273. Classification Consistency and Classification Accuracy for Writing Grade 6****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0397	0.0148	0.0000	0.0000	0.0545
Partially Proficient	0.0134	0.2738	0.0560	0.0000	0.3432
Proficient	0.0000	0.0561	0.3784	0.0384	0.4729
Advanced	0.0000	0.0000	0.0366	0.0928	0.1294
Sum	0.0531	0.3446	0.4711	0.1312	1.0000
Observed Score Dist.	0.0482	0.3473	0.4916	0.1129	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9718	0.8879	0.9250	0.7847
Chance Probability ( $P_c$ )	0.8982	0.5209	0.7734	0.3609
Kappa	0.7229	0.7660	0.6689	0.6630
Classification Accuracy	0.9792	0.9229	0.9477	0.8497

**Table 274. Classification Consistency and Classification Accuracy for Writing Grade 7****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0276	0.0126	0.0000	0.0000	0.0402
Partially Proficient	0.0109	0.2938	0.0513	0.0001	0.3562
Proficient	0.0000	0.0514	0.3489	0.0433	0.4437
Advanced	0.0000	0.0000	0.0434	0.1165	0.1600
Sum	0.0385	0.3578	0.4437	0.1600	1.0000
Observed Score Dist.	0.0350	0.3589	0.4592	0.1469	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9765	0.8971	0.9131	0.7868
Chance Probability ( $P_c$ )	0.9244	0.5215	0.7312	0.3514
Kappa	0.6891	0.7849	0.6767	0.6713
Classification Accuracy	0.9826	0.9225	0.9386	0.8437

**Table 275. Classification Consistency and Classification Accuracy for Writing Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0340	0.0155	0.0000	0.0000	0.0495
Partially Proficient	0.0136	0.3650	0.0561	0.0004	0.4352
Proficient	0.0000	0.0531	0.3159	0.0364	0.4054
Advanced	0.0000	0.0000	0.0361	0.0739	0.1099
Sum	0.0476	0.4337	0.4081	0.1107	1.0000
Observed Score Dist.	0.0443	0.4403	0.4221	0.0933	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9709	0.8903	0.9271	0.7888
Chance Probability ( $P_c$ )	0.9076	0.5006	0.8037	0.3687
Kappa	0.6850	0.7803	0.6288	0.6654
Classification Accuracy	0.9800	0.9177	0.9509	0.8485

**Table 276. Classification Consistency and Classification Accuracy for Writing Grade 9****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0359	0.0142	0.0000	0.0000	0.0501
Partially Proficient	0.0143	0.3761	0.0504	0.0000	0.4408
Proficient	0.0000	0.0564	0.3330	0.0285	0.4179
Advanced	0.0000	0.0000	0.0303	0.0609	0.0912
Sum	0.0503	0.4466	0.4137	0.0894	1.0000
Observed Score Dist.	0.0468	0.4471	0.4295	0.0767	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9715	0.8932	0.9412	0.8059
Chance Probability ( $P_c$ )	0.9046	0.5001	0.8357	0.3804
Kappa	0.7008	0.7864	0.6423	0.6868
Classification Accuracy	0.9793	0.9228	0.9598	0.8619



**Table 277. Classification Consistency and Classification Accuracy for Writing Grade 10****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0579	0.0174	0.0000	0.0000	0.0753
Partially Proficient	0.0164	0.3317	0.0565	0.0000	0.4046
Proficient	0.0000	0.0542	0.3391	0.0304	0.4237
Advanced	0.0000	0.0001	0.0304	0.0658	0.0964
Sum	0.0743	0.4034	0.4260	0.0963	1.0000
Observed Score Dist.	0.0723	0.4068	0.4393	0.0817	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9662	0.8891	0.9390	0.7945
Chance Probability ( $P_c$ )	0.8616	0.5009	0.8259	0.3586
Kappa	0.7558	0.7779	0.6497	0.6796
Classification Accuracy	0.9755	0.9223	0.9582	0.8559

**Table 278. Classification Consistency and Classification Accuracy for Spanish Reading  
Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1464	0.0368	0.0014	0.0000	0.1846
Partially Proficient	0.0400	0.1262	0.0589	0.0000	0.2251
Proficient	0.0013	0.0579	0.3920	0.0376	0.4888
Advanced	0.0000	0.0000	0.0342	0.0673	0.1015
Sum	0.1877	0.2208	0.4865	0.1049	1.0000
Observed Score Dist.	0.1833	0.2234	0.5060	0.0872	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9205	0.8806	0.9281	0.7319
Chance Probability ( $P_c$ )	0.6970	0.5165	0.8149	0.3328
Kappa	0.7376	0.7530	0.6119	0.5982
Classification Accuracy	0.9436	0.9173	0.9529	0.8140

**Table 279. Classification Consistency and Classification Accuracy for Spanish Reading  
Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2770	0.0531	0.0001	0.0000	0.3302
Partially Proficient	0.0549	0.1962	0.0459	0.0000	0.2970
Proficient	0.0007	0.0470	0.2585	0.0153	0.3214
Advanced	0.0000	0.0000	0.0155	0.0359	0.0514
Sum	0.3326	0.2963	0.3200	0.0511	1.0000
Observed Score Dist.	0.3371	0.3030	0.3106	0.0492	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.8912	0.9063	0.9692	0.7676
Chance Probability ( $P_c$ )	0.5569	0.5328	0.9028	0.3033
Kappa	0.7546	0.7994	0.6837	0.6664
Classification Accuracy	0.9261	0.9336	0.9775	0.8374

**Table 280. Classification Consistency and Classification Accuracy for Spanish Writing  
Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1512	0.0380	0.0007	0.0000	0.1900
Partially Proficient	0.0394	0.1710	0.0600	0.0007	0.2710
Proficient	0.0010	0.0585	0.2749	0.0438	0.3783
Advanced	0.0000	0.0005	0.0462	0.1141	0.1607
Sum	0.1916	0.2680	0.3818	0.1586	1.0000
Observed Score Dist.	0.1831	0.2769	0.3948	0.1451	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9209	0.8787	0.9089	0.7112
Chance Probability ( $P_c$ )	0.6912	0.5032	0.7316	0.2790
Kappa	0.7438	0.7558	0.6604	0.5995
Classification Accuracy	0.9419	0.9147	0.9383	0.7950

**Table 281. Classification Consistency and Classification Accuracy for Spanish Writing  
Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2432	0.0773	0.0011	0.0000	0.3216
Partially Proficient	0.0705	0.2557	0.0537	0.0000	0.3798
Proficient	0.0013	0.0567	0.2091	0.0096	0.2766
Advanced	0.0000	0.0000	0.0092	0.0127	0.0219
Sum	0.3149	0.3897	0.2731	0.0223	1.0000
Observed Score Dist.	0.3068	0.4015	0.2765	0.0152	

**Indexes for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.8498	0.8873	0.9812	0.7206
Chance Probability ( $P_c$ )	0.5660	0.5825	0.9568	0.3253
Kappa	0.6539	0.7300	0.5645	0.5859
Classification Accuracy	0.9010	0.9248	0.9873	0.8131

**Table 282. Mean and Median Scale Scores by Year for Writing Subcontent Areas:  
Paragraph Writing and Extended Writing**

Grade	Year	N	Paragraph Writing (SA5)			Extended Writing (SA6)			Combine SA5 and SA6		
			Mean	Median	SD	Mean	Median	SD	Mean	Median	SD
4	2002	55488	489.1	491	72.8	504.3	486	99.3	487.6	485	60.3
4	2003	55108	486.0	479	73.5	497.4	479	91.7	486.4	486	64.7
4	2004	54546	492.4	490	65.9	516.7	505	107.6	491.9	489	59.5
4	2005	54339	493.9	486	74.3	504.1	516	98.6	490.3	488	64.8
4	2006	55640	485.6	488	66.1	509.8	495	109.6	485.9	484	60.3
4	2007	56278	487.0	481	64.5	494.1	479	87.8	484.7	482	58.9
5	2002	56398	503.1	503	66.0	517.8	503	105.8	501.5	501	60.4
5	2003	56822	502.6	504	72.3	530.6	500	121.1	503.6	503	65.3
5	2004	55946	505.1	500	73.5	525.4	508	107.7	506.5	505	66.4
5	2005	55191	512.4	509	70.5	542.6	525	130.2	510.1	506	65.5
5	2006	55800	513.2	511	72.7	533.2	484	114.2	513.5	511	69.4
5	2007	56704	508.9	507	65.9	530.5	538	112.9	508.4	506	62.4
6	2002	55632	518.3	518	76.1	527.9	529	95.2	518.2	518	68.4
6	2003	56674	521.0	521	71.2	548.7	524	123.8	522.5	523	67.5
6	2004	56744	522.7	522	73.7	558.8	547	134.6	524.2	521	70.1
6	2005	56200	531.8	527	82.8	535.7	496	106.2	529.3	528	74.0
6	2006	56097	530.6	526	82.9	541.6	490	116.2	529.0	526	76.5
6	2007	56380	529.7	527	80.0	539.4	600	104.0	528.9	528	74.6
7	2002	54338	543.5	541	79.8	557.7	542	106.0	543.3	541	70.3
7	2003	56609	544.3	546	78.9	580.0	554	141.4	546.9	548	73.9
7	2004	57016	546.1	543	94.4	574.4	557	147.7	545.1	542	85.5
7	2005	57201	550.7	546	90.2	552.3	503	113.6	547.7	545	82.7
7	2006	57323	550.3	548	91.5	576.9	577	145.3	549.6	549	83.8
7	2007	56769	560.8	555	88.8	573.2	648	105.0	559.6	556	82.5
8	2002	53466	553.9	551	85.9	585.9	586	124.3	557.5	557	76.0
8	2003	54894	555.0	556	82.4	589.7	592	136.5	557.8	558	79.4
8	2004	56410	556.1	555	90.1	575.5	583	142.1	553.9	553	84.4
8	2005	56821	558.9	557	87.4	572.1	558	127.7	558.0	555	82.1
8	2006	58095	560.1	558	87.6	556.5	552	125.0	556.2	556	83.1
8	2007	57631	563.3	559	94.0	577.3	601	119.5	561.5	556	86.6
9	2002	52972	563.1	563	92.0	580.6	637	121.7	564.1	564	87.2
9	2003	55540	572.1	570	98.0	610.8	593	157.0	572.9	569	90.9
9	2004	56588	571.2	569	94.8	580.1	545	94.6	571.6	572	79.7
9	2005	57703	569.2	569	96.1	576.3	524	104.9	567.9	564	84.8
9	2006	58795	569.5	570	96.1	568.4	536	105.2	566.8	561	88.0
9	2007	59521	569.2	564	97.3	579.8	635	124.1	567.0	563	89.1
10	2002	49009	586.8	588	96.7	606.0	580	138.4	585.9	585	88.8
10	2003	49658	591.0	583	107.6	640.6	590	185.8	588.7	583	100.0
10	2004	50756	584.0	577	96.7	588.0	537	117.2	580.6	578	84.8
10	2005	51638	579.8	576	97.5	582.0	529	111.0	577.7	575	88.2
10	2006	53754	583.6	581	101.2	586.4	523	112.1	580.8	578	91.1
10	2007	54683	585.6	579	104.9	594.3	649	123.2	583.2	583	94.0