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<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 Operation 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	
1/5	5, 8, and 10	Scientific Investigation and the Nature of Science
2	5, 8, and 10	Physical Science
3	5, 8, and 10	Life Science
4	5, 8, and 10	Earth and Space Science
<b>Subcontent Areas</b>		
SA	Grades	
1	5, 8, and 10	Experimental Design and Investigations
2	5, 8, and 10	Results and Data Analysis
3	8	Physics Concepts
4	10	Chemistry Concepts
5	8 and 10	Life Processes
6	8 and 10	Geology and Astronomy

**Table 2. Configuration of 2009 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		4	4	
Reading	4	91	56	14	70		8	5	1
Reading <sup>*1</sup>	5	90	55	14	69		7	7	
Reading	6	91	56	14	70		7	7	
Reading <sup>*1</sup>	7	90	55	14	69		7	7	
Reading	8	91	56	14	70		8	5	1
Reading <sup>*1</sup>	9	94	55	14	69		3	11	
Reading	10	95	56	14	70		3	11	
Writing	3	56	35	18	53	15	3		
Writing	4	69	40	13	53	7	1		5
Writing <sup>*1</sup>	5	68	39	13	52	7	1		5
Writing	6	69	40	13	53	7	1		5
Writing	7	69	40	13	53	7	1		5
Writing	8	69	40	13	53	7	1		5
Writing	9	69	40	13	53	7	1		5
Writing	10	69	40	13	53	7	1		5
Spanish Reading	3	52	32	8	40		4	4	
Spanish Reading	4	91	56	14	70		7	7	
Spanish Writing	3	56	35	18	53	15	3		
Spanish Writing	4	69	40	13	53	7	1		5
Mathematics <sup>*1</sup>	3	49	31	8	39		6	2	
Mathematics <sup>*2</sup>	4	92	54	14	68		6	6	2
Mathematics <sup>*2</sup>	5	94	54	14	68		5	6	3
Mathematics <sup>*1</sup>	6	86	44	15	59		6	6	3
Mathematics	7	87	45	15	60		6	6	3
Mathematics	8	87	45	15	60		6	6	3
Mathematics	9	87	45	15	60		6	6	3
Mathematics	10	87	45	15	60		6	6	3
Science <sup>*2</sup>	5	85	57	17	74	6	11		
Science	8	100	60	23	83	10	10	2	1
Science <sup>*1</sup>	10	99	59	23	82	8	14		1

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

1. 1 MC item removed
2. 1 CR item removed

**Table 3. Configuration of 2009 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									12	12	10	10	10	10		
		CR	8	20									5	12	3	8				
4	Reading	MC	22	22	10	10	16	16	8	8			17	17	13	13	10	10		
		CR	6	15	3	8	1	2	4	10			9	23	4	10				
5	Reading <sup>*1</sup>	MC	17	17	18	18	15	15	5	5			18	18	21	21	11	11		
		CR	5	13	1	2	2	5	6	15			7	17	6	16				
6	Reading	MC	20	20	18	18	12	12	6	6			20	20	13	13	11	11		
		CR	4	11	1	2	3	8	6	14			8	19	3	8				
7	Reading <sup>*2</sup>	MC	17	17	15	15	14	14	9	9	16	16			8	8	11	11	8	8
		CR	6	14	2	4	2	6	4	11	6	15			2	4			4	10
8	Reading	MC	20	20	15	15	11	11	10	10	16	16			12	12	11	11	6	6
		CR	5	11	2	5	3	9	4	10	6	15			4	9			1	2
9	Reading <sup>*3</sup>	MC	15	15	9	9	17	17	14	14	10	10			17	17	8	8	8	8
		CR	6	17	4	12	1	3	3	7	1	3			7	20	2	6	3	7
10	Reading	MC	18	18	9	9	18	18	11	11	14	14			9	9	14	14	4	4
		CR	5	14	4	12	1	3	4	10	6	17			6	17			1	2
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				

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

1. Removed one MC item from calibration in CS1–SA2

2. Removed one MC item from calibration in CS4–SA1

3. Removed one MC item from calibration in CS5

**Table 4. Configuration of 2009 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	7	7			17	17	8	8
		CR	6	21	7	8	3	12	4	11	3	3	3	3
5	Writing <sup>*1</sup>	MC	14	14	25	25	9	9			17	17	13	13
		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			22	22	12	12
		CR	6	21	7	8	3	12	4	11	3	2	3	3
8	Writing	MC	15	15	25	25	6	6			17	17	13	13
		CR	6	21	7	8	3	12	4	11	2	2	4	4
9	Writing	MC	15	15	25	25	8	8			20	20	12	12
		CR	6	21	7	8	3	12	4	11	2	2	4	4
10	Writing	MC	15	15	25	25	7	7			22	22	11	11
		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

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

1. Removed one MC item from calibration in CS2–SA7

**Table 5. Configuration of 2009 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 <sup>*1</sup>	MC	6	6					8	8			12	12	5	5						
		CR	2	4					2	4			2	5	2	5						
4	Mathematics <sup>*2</sup>	MC	9	9			7	7			9	9	17	17	12	12	7	7	4	4	8	8
		CR	3	10			3	6			2	5	4	12	2	5	4	13	3	6	1	3
5	Mathematics <sup>*3</sup>	MC	14	14			8	8			7	7	12	12	13	13	12	12	5	5	3	3
		CR	2	5			4	11			3	10	3	9	2	5	1	3	4	11	2	7
6	Mathematics <sup>*4</sup>	MC	10	10			6	6			7	7	12	12	9	9	7	7	4	4	5	5
		CR	2	7			3	10			4	11	4	10	2	4	4	11	3	10	4	10
7	Mathematics	MC			15	15	9	9			9	9	12	12			2	2	1	1		
		CR			4	11	3	8			3	9	5	14			3	7	4	12		
8	Mathematics	MC			11	11	11	11			9	9	14	14			4	4	8	8	7	7
		CR			4	11	3	9			3	8	5	14			2	7	3	9	4	12
9	Mathematics	MC			10	10	12	12			10	10	13	13			6	6	9	9		
		CR			3	7	5	14			4	11	3	10			5	16	5	15		
10	Mathematics	MC			12	12	12	12			11	11	10	10			5	5	6	6		
		CR			2	5	5	14			4	11	4	12			6	19	1	2		

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

1. Removed one MC item from calibration in CS2/3
2. Removed one CR item from calibration in CS2–SA2
3. Removed one CR item from calibration in CS3–SA3
4. Removed one MC item from calibration in CS2–SA2

**Table 6. Configuration of 2009 CSAP Science Assessments by Grade, Content Standard, Subcontent Area, and Item Type**

Grade	Content Area	Item Type	Content Standard								Subcontent Area											
			1/5		2		3		4		1		2		3		4		5		6	
			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.
5	Science <sup>*1</sup>	MC	23	23	12	12	10	10	12	12	13	13	7	7								
		CR	6	9	3	6	4	7	4	6	2	3	4	6								
8	Science	MC	25	25	14	14	9	9	12	12	13	13	10	10	10	10			7	7	6	6
		CR	9	15	3	6	6	11	5	8	3	4	6	11	2	5			6	11	5	8
10	Science <sup>*2</sup>	MC	16	16	14	14	15	15	14	14	6	6	7	7			9	9	10	10	9	9
		CR	13	23	3	6	3	5	4	6	6	10	6	11			1	2	2	4	2	3

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

1. Removed one CR item from calibration in CS1/5–SA1

1. Removed one MC item from calibration in CS1/5

**Table 7. Percentage of Items in Depth of Knowledge Levels**

Tests		Grade		DOK Level				Number of Items in Test		
				1		2			3	
				MC	CR	MC	CR		MC	CR
Reading	3	35.0%	0.0%	45.0%	17.5%	0.0%	2.5%	40		
	4	52.9%	5.7%	27.1%	11.4%	0.0%	2.9%	70		
	5	47.8%	4.3%	31.9%	14.5%	0.0%	1.4%	69		
	6	40.0%	1.4%	38.6%	17.1%	1.4%	1.4%	70		
	7	49.3%	2.9%	29.0%	13.0%	1.4%	4.3%	69		
	8	44.3%	4.3%	32.9%	7.1%	2.9%	8.6%	70		
	9	52.2%	2.9%	26.1%	10.1%	1.4%	7.2%	69		
	10	50.0%	2.9%	28.6%	8.6%	1.4%	8.6%	70		
Writing	3	56.6%	11.3%	9.4%	0.0%	0.0%	22.6%	53		
	4	66.0%	11.3%	9.4%	1.9%	0.0%	11.3%	53		
	5	50.0%	13.5%	25.0%	3.8%	0.0%	7.7%	52		
	6	52.8%	15.1%	22.6%	3.8%	0.0%	5.7%	53		
	7	50.9%	11.3%	24.5%	0.0%	0.0%	13.2%	53		
	8	49.1%	11.3%	26.4%	3.8%	0.0%	9.4%	53		
	9	49.1%	9.4%	26.4%	7.5%	0.0%	7.5%	53		
	10	50.9%	0.0%	24.5%	15.1%	0.0%	9.4%	53		
Mathematics	3	35.9%	0.0%	43.6%	17.9%	0.0%	2.6%	39		
	4	29.4%	0.0%	50.0%	5.9%	0.0%	14.7%	68		
	5	35.3%	0.0%	42.6%	5.9%	1.5%	14.7%	68		
	6	20.3%	0.0%	52.5%	8.5%	1.7%	16.9%	59		
	7	16.7%	0.0%	45.0%	10.0%	13.3%	15.0%	60		
	8	10.0%	0.0%	41.7%	6.7%	23.3%	18.3%	60		
	9	15.0%	0.0%	51.7%	16.7%	8.3%	8.3%	60		
	10	11.7%	1.7%	60.0%	11.7%	3.3%	11.7%	60		
Science	5	39.2%	8.1%	36.5%	13.5%	1.4%	1.4%	74		
	8	22.9%	9.6%	38.6%	13.3%	10.8%	4.8%	83		
	10	29.3%	2.4%	42.7%	17.1%	0.0%	8.5%	82		
Spanish Reading	3	0.0%	0.0%	80.0%	20.0%	0.0%	0.0%	40		
	4	32.9%	1.4%	38.6%	17.1%	8.6%	1.4%	70		
Spanish Writing	3	66.0%	17.0%	0.0%	17.0%	0.0%	0.0%	53		
	4	64.2%	13.2%	11.3%	9.4%	0.0%	1.9%	53		

**Table 8. Percentage of Score Points in Depth of Knowledge Levels**

Tests	Grade	DOK Level						Total Number of Points in Test
		1		2		3		
		MC	CR	MC	CR	MC	CR	
Reading	3	26.9%	0.0%	34.6%	32.7%	0.0%	5.8%	52
	4	40.7%	11.0%	20.9%	19.8%	0.0%	7.7%	91
	5	36.7%	7.8%	24.4%	28.9%	0.0%	2.2%	90
	6	30.8%	3.3%	29.7%	33.0%	1.1%	2.2%	91
	7	37.8%	4.4%	22.2%	25.6%	1.1%	8.9%	90
	8	34.1%	6.6%	25.3%	15.4%	2.2%	16.5%	91
	9	38.3%	6.4%	19.1%	21.3%	1.1%	13.8%	94
	10	36.8%	6.3%	21.1%	17.9%	1.1%	16.8%	95
Writing	3	53.6%	10.7%	8.9%	0.0%	0.0%	26.8%	56
	4	50.7%	8.7%	7.2%	5.8%	0.0%	27.5%	69
	5	38.2%	10.3%	19.1%	11.8%	0.0%	20.6%	68
	6	40.6%	13.0%	17.4%	11.6%	0.0%	17.4%	69
	7	39.1%	8.7%	18.8%	0.0%	0.0%	33.3%	69
	8	37.7%	8.7%	20.3%	11.6%	0.0%	21.7%	69
	9	37.7%	8.7%	20.3%	14.5%	0.0%	18.8%	69
	10	39.1%	0.0%	18.8%	17.4%	0.0%	24.6%	69
Mathematics	3	28.6%	0.0%	34.7%	30.6%	0.0%	6.1%	49
	4	21.7%	0.0%	37.0%	9.8%	0.0%	31.5%	92
	5	25.5%	0.0%	30.9%	9.6%	1.1%	33.0%	94
	6	14.0%	0.0%	36.0%	15.1%	1.2%	33.7%	86
	7	11.5%	0.0%	31.0%	18.4%	9.2%	29.9%	87
	8	6.9%	0.0%	28.7%	9.2%	16.1%	39.1%	87
	9	10.3%	0.0%	35.6%	29.9%	5.7%	18.4%	87
	10	8.0%	2.3%	41.4%	19.5%	2.3%	26.4%	87
Science	5	34.1%	10.6%	31.8%	20.0%	1.2%	2.4%	85
	8	19.0%	15.0%	32.0%	19.0%	9.0%	6.0%	100
	10	24.2%	4.0%	35.4%	25.3%	0.0%	11.1%	99
Spanish Reading	3	0.0%	0.0%	61.5%	38.5%	0.0%	0.0%	52
	4	25.3%	2.2%	29.7%	34.1%	6.6%	2.2%	91
Spanish Writing	3	62.5%	16.1%	0.0%	21.4%	0.0%	0.0%	56
	4	49.3%	11.6%	8.7%	29.0%	0.0%	1.4%	69



**Table 9. Previously Administered Items Selected for 2009 Test Forms that were Flagged for DIF or Fit**

Language	Content Area	Grade	Item Type	2009 Item	2009 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Mathematics	3	CR	5		2007	E	0
English	Mathematics	4	CR	7		2005	E	0
English	Mathematics	4	CR	56		2007	E	0
English	Mathematics	4	CR	69		2007	E	0
English	Mathematics	5	CR	52		2007	0	1
English	Mathematics	6	CR	8		2007	0	1
English	Mathematics	6	CR	16		2007	0	1
English	Mathematics	6	CR	40		2007	0	1
English	Mathematics	6	CR	51		2003	E	0
English	Mathematics	7	CR	26		2007	0	1
English	Mathematics	7	CR	60		2007	G	0
						2005,		
English	Mathematics	8	CR	2		2007	E	0
English	Mathematics	8	MC	4	yes	2005	0	1
English	Mathematics	8	CR	28		2007	0	1
English	Mathematics	8	MC	29		2007	0	1
English	Mathematics	8	MC	36		2007	0	1
English	Mathematics	8	CR	40		2005	E	0
English	Mathematics	8	CR	52		2007	E	0
English	Mathematics	8	MC	53	yes	2007	0	1
English	Mathematics	9	CR	6		2007	E	0
						2005,		
English	Mathematics	9	CR	33		2007	0	1
English	Mathematics	9	CR	40		2007	G	0
						2005,		
English	Mathematics	10	MC	25		2007	0	1
English	Mathematics	10	CR	27		2007	E	0
						2005,		
English	Mathematics	10	MC	37		2007	0	1
English	Mathematics	10	CR	40		2003	0	1
						2003,		
						2005,		
English	Mathematics	10	CR	45		2007	0	1
English	Mathematics	10	CR	49		2005	0	1
						2005,		
English	Reading	3	MC	32	yes	2007	0	1
English	Reading	4	CR	48		2007	E	0
English	Reading	4	CR	109		2007	E	0
English	Reading	5	CR	26		2007	E	0
English	Reading	5	CR	28		2007	E	0
English	Reading	5	CR	99		2007	E	0
English	Reading	5	MC	106		2005	0	1
English	Reading	6	CR	29		2007	E	0
English	Reading	6	CR	111		2007	E	0
English	Reading	7	MC	13	yes	2005	0	1
English	Reading	7	CR	34		2007	0	1

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

**Table 9. Previously Administered Items Selected for 2009 Test Forms  
that were Flagged for DIF or Fit (Continued)**

Language	Content Area	Grade	Item Type	2009 Item	2009 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Reading	7	CR	95		2007	E	0
English	Reading	8	CR	28		2007	E	0
						2005,		
English	Reading	8	CR	30		2007	E	0
English	Reading	8	MC	102	yes	2005	0	1
English	Reading	8	CR	111		2007	E	1
English	Reading	9	CR	5		2007	E	0
English	Reading	9	CR	15		2007	E	0
English	Reading	10	MC	107		2007	0	1
English	Science	8	CR	22		2007	G	0
English	Science	8	MC	64		2007	0	1
English	Science	8	MC	70		2007	0	1
English	Science	8	CR	76		2007	E	0
English	Writing	3	MC	5		2007	E	0
						2005,		
English	Writing	5	CR	3A		2007	0	1
English	Writing	5	CR	92		2007	0	1
English	Writing	5	CR	116		2003	0	1
English	Writing	6	CR	3A		2007	0	1
English	Writing	6	CR	3C		2007	0	1
English	Writing	6	CR	100		2007	0	1
English	Writing	7	CR	2C		2007	E	0
						2005,		
English	Writing	7	CR	3A		2007	0	1
English	Writing	7	CR	92		2005	0	1
English	Writing	7	CR	92		2007	G	0
English	Writing	8	CR	2D		2007	E	0
English	Writing	8	CR	3A		2007	0	1
English	Writing	8	CR	3C		2007	0	1
English	Writing	8	CR	22		2005	0	1
English	Writing	8	CR	22		2007	G	0
English	Writing	8	MC	70	yes	2005	E	0
English	Writing	8	MC	79		2007	E	0
English	Writing	9	CR	2C		2007	E	0
English	Writing	9	CR	3A		2007	0	1
English	Writing	9	CR	96		2007	G	1
English	Writing	9	CR	116		2007	G	0
English	Writing	10	CR	3A		2007	0	1
English	Writing	10	MC	70		2007	E	0
English	Writing	10	CR	74		2007	G	0
						2005,		1
English	Writing	10	CR	94		2007	E	

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

**Table 9. Previously Administered Items Selected for 2009 Test Forms that were Flagged for DIF or Fit (Continued)**

Language	Content Area	Grade	Item Type	2009 Item	2009 Anchor	Year Flagged	DIF Flag*	Fit Flag*
Spanish	Reading	3	CR	1		2007, 2008	0	1
Spanish	Reading	3	MC	7	yes	2004	0	1
Spanish	Reading	3	MC	14		2007	0	1
Spanish	Reading	3	MC	20	yes	2007	0	1
Spanish	Reading	3	MC	24	yes	2008	0	1
Spanish	Reading	3	CR	26		2002, 2003, 2006	0	1
Spanish	Reading	3	CR	32		2008	0	1
Spanish	Reading	3	CR	36		2008	0	1
Spanish	Reading	4	MC	15	yes	2005	0	1
Spanish	Reading	4	MC	19	yes	2008	0	1
Spanish	Reading	4	MC	21	yes	2008	0	1
Spanish	Reading	4	MC	23	yes	2004	0	1
Spanish	Reading	4	MC	26		2003, 2008	0	1
Spanish	Reading	4	MC	28	yes	2005, 2007	0	1
Spanish	Reading	4	MC	32		2008	0	1
Spanish	Reading	4	MC	38		2008	0	1
Spanish	Reading	4	MC	40		2008	0	1
Spanish	Reading	4	CR	42		2008	0	1
Spanish	Reading	4	CR	44		2004, 2008	0	1
Spanish	Reading	4	MC	46		2008	0	1
Spanish	Reading	4	MC	48		2004	0	1
Spanish	Reading	4	MC	92		2003, 2004	0	1
Spanish	Reading	4	MC	93	yes	2008	0	1
Spanish	Reading	4	MC	94		2003	0	1
Spanish	Reading	4	MC	95	yes	2008	0	1
Spanish	Reading	4	MC	102		2008	0	1
Spanish	Reading	4	MC	103		2008	0	1
Spanish	Reading	4	MC	107	yes	2005	0	1
Spanish	Reading	4	MC	110		2008	0	1
Spanish	Reading	4	MC	111		2008	0	1
Spanish	Reading	4	MC	113		2004	0	1
Spanish	Reading	4	MC	114		2008	0	1
Spanish	Writing	3	MC	6		2008	0	1
Spanish	Writing	3	CR	27A		2007	0	1
Spanish	Writing	3	MC	34		2004	0	1
Spanish	Writing	4	CR	2F		2008	0	1
Spanish	Writing	4	CR	3A		2005	0	1
Spanish	Writing	4	MC	52	yes	2005	0	1

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

**Table 9. Previously Administered Items Selected for 2009 Test Forms  
that were Flagged for DIF or Fit (Concluded)**

Language	Content Area	Grade	Item Type	2009 Item	2009 Anchor	Year Flagged	DIF Flag*	Fit Flag*
Spanish	Writing	4	MC	55	yes	2005	0	1
Spanish	Writing	4	MC	57		2008	0	1
Spanish	Writing	4	MC	58		2008	0	1
Spanish	Writing	4	MC	60		2008	0	1
Spanish	Writing	4	MC	61		2005	0	1
Spanish	Writing	4	MC	65	yes	2005	G	0
Spanish	Writing	4	MC	71	yes	2004	0	1
						2004,		
Spanish	Writing	4	MC	74		2008	0	1
Spanish	Writing	4	MC	75		2008	0	1
						2005,		
Spanish	Writing	4	MC	76		2008	0	1
						2004,		
Spanish	Writing	4	MC	79		2008	0	1
Spanish	Writing	4	MC	83		2008	0	1
Spanish	Writing	4	MC	85		2004	0	1
Spanish	Writing	4	MC	87		2008	0	1
Spanish	Writing	4	MC	89		2008	0	1

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

**Table 10. Lowest and Highest Obtainable Scale Scores for the CSAP Assessments**

<b>Grade</b>	<b>Content Area</b>	<b>LOSS</b>	<b>HOSS</b>
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	900
8	Science	300	900
10	Science	300	900

**Table 11. 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	5	3073	2	0.86	0.86	0.93	0.93	0.93	92.91	6.05	98.96
3	9	3067	2	1.09	1.09	0.93	0.93	0.96	95.56	4.31	99.87
3	13	3067	2	1.11	1.11	0.83	0.82	0.93	94.23	5.48	99.71
3	20	3068	3	1.27	1.27	0.99	0.99	0.96	97.33	2.64	99.97
3	31	3055	2	1.28	1.28	0.86	0.86	0.92	93.42	5.73	99.15
3	34	3066	2	1.15	1.15	0.78	0.78	0.90	91.58	8.09	99.67
3	38	3066	2	1.52	1.52	0.64	0.64	0.88	92.82	7.12	99.94
3	40	3076	3	2.06	2.05	0.84	0.84	0.92	91.51	8.45	99.96
4	5	2957	2	1.51	1.52	0.67	0.66	0.88	92.79	6.87	99.66
4	7	2960	3	2.19	2.21	0.89	0.88	0.87	86.08	13.52	99.60
4	10	2958	2	1.00	1.00	0.87	0.87	0.90	91.00	7.98	98.98
4	14	2961	3	2.63	2.63	0.69	0.70	0.88	94.26	5.30	99.56
4	23	2954	4	2.81	2.81	1.03	1.02	0.76	75.17	20.36	95.53
4	28	2961	2	1.49	1.49	0.68	0.68	0.91	94.12	5.81	99.93
4	31	2962	3	2.51	2.52	0.90	0.89	0.91	93.55	5.33	98.88
4	36	2949	3	1.54	1.55	1.12	1.12	0.87	81.48	16.66	98.14
4	38	2944	2	1.00	0.99	0.91	0.91	0.92	92.83	6.49	99.32
4	46	2962	4	2.62	2.63	1.12	1.11	0.90	85.55	13.61	99.16
4	50	2961	2	1.00	1.00	0.52	0.52	0.83	93.04	6.89	99.93
4	56	2940	3	1.85	1.86	1.02	1.02	0.83	78.38	20.60	98.98
4	59	2960	2	1.59	1.60	0.72	0.72	0.91	94.80	4.66	99.46
4	63	2962	3	1.58	1.58	1.14	1.14	0.96	95.17	4.59	99.76
4	69	2957	4	2.78	2.78	1.45	1.45	0.90	84.61	10.62	95.23
5	3	2972	2	1.26	1.26	0.83	0.82	0.90	89.37	10.09	99.46
5	9	2980	3	1.87	1.88	0.87	0.87	0.88	84.97	14.33	99.30
5	11	2977	2	1.78	1.78	0.55	0.55	0.93	97.72	2.08	99.80
5	15	2976	3	1.67	1.67	1.09	1.08	0.93	87.77	11.59	99.36
5	23	2968	4	2.29	2.28	1.39	1.39	0.94	88.78	10.65	99.43
5	29	2966	2	1.39	1.39	0.82	0.82	0.92	93.36	6.24	99.60
5	34	2971	3	1.68	1.67	1.11	1.10	0.96	94.88	4.91	99.79
5	37	2961	2	0.91	0.90	0.92	0.91	0.93	92.13	7.74	99.87
5	44	2971	3	2.19	2.18	1.03	1.04	0.93	91.75	7.81	99.56
5	46	2972	4	2.08	2.08	1.53	1.53	0.95	83.71	15.92	99.63
5	52	2976	2	1.07	1.07	0.74	0.74	0.95	96.20	3.80	100.00
5	54	2971	3	2.26	2.26	0.90	0.91	0.84	80.91	18.18	99.09
5	57	2965	3	1.94	1.95	0.94	0.93	0.89	87.82	11.98	99.80
5	60	2970	2	1.04	1.03	0.66	0.67	0.77	81.70	18.30	100.00
5	69	2975	4	2.41	2.42	1.03	1.04	0.82	74.92	22.45	97.37

**Table 11. 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	2844	3	2.07	2.07	0.85	0.86	0.86	83.79	15.58	99.37
6	8	2837	2	1.45	1.46	0.77	0.77	0.88	88.75	10.97	99.72
6	16	2796	3	1.47	1.46	1.03	1.03	0.88	90.08	9.56	99.64
6	20	2841	4	3.09	3.09	0.98	0.98	0.81	71.03	27.67	98.70
6	23	2842	2	1.49	1.49	0.60	0.60	0.84	90.15	9.78	99.93
6	30	2826	3	1.47	1.47	1.04	1.04	0.90	88.21	11.40	99.61
6	33	2836	3	2.35	2.34	0.95	0.95	0.92	92.38	7.09	99.47
6	37	2831	2	1.46	1.46	0.78	0.79	0.93	95.01	4.67	99.68
6	40	2839	4	1.60	1.59	1.35	1.35	0.92	83.90	14.76	98.66
6	44	2824	2	1.04	1.04	0.81	0.81	0.77	77.91	20.32	98.23
6	45	2841	3	1.58	1.59	1.01	1.00	0.89	83.10	16.16	99.26
6	48	2829	2	1.33	1.32	0.68	0.68	0.70	73.97	25.88	99.85
6	51	2828	3	1.59	1.60	1.01	1.01	0.90	87.65	11.71	99.36
6	56	2831	2	0.71	0.72	0.83	0.83	0.89	92.36	5.94	98.30
6	60	2840	4	2.51	2.51	1.21	1.20	0.85	70.06	27.65	97.71
7	3	2815	2	0.56	0.56	0.82	0.82	0.92	97.12	2.81	99.93
7	9	2862	3	1.65	1.65	1.17	1.16	0.91	82.21	16.74	98.95
7	11	2858	2	1.00	0.99	0.79	0.79	0.88	87.68	12.18	99.86
7	15	2825	3	0.75	0.75	1.04	1.03	0.86	87.98	10.64	98.62
7	20	2840	4	1.60	1.60	1.04	1.04	0.87	89.44	9.89	99.33
7	26	2808	2	0.46	0.47	0.66	0.66	0.81	92.91	6.13	99.04
7	28	2845	3	0.82	0.82	1.04	1.04	0.88	86.99	11.78	98.77
7	31	2838	2	0.80	0.80	0.80	0.80	0.86	87.88	11.63	99.51
7	34	2854	3	1.69	1.69	1.00	1.01	0.90	86.65	12.86	99.51
7	40	2841	4	1.98	1.99	1.21	1.21	0.87	80.29	18.73	99.02
7	43	2829	2	1.08	1.09	0.82	0.82	0.74	75.65	22.09	97.74
7	49	2855	3	1.56	1.56	1.12	1.12	0.92	90.40	8.02	98.42
7	53	2845	2	0.91	0.92	0.86	0.86	0.87	89.38	8.75	98.13
7	57	2856	3	2.35	2.35	0.80	0.80	0.84	85.36	14.15	99.51
7	60	2831	4	1.80	1.81	1.18	1.19	0.85	81.34	17.67	99.01
8	2	2890	2	1.11	1.12	0.87	0.87	0.89	87.99	11.14	99.13
8	6	2846	3	1.33	1.35	1.24	1.25	0.86	79.21	19.38	98.59
8	9	2833	2	0.41	0.41	0.77	0.78	0.86	94.84	3.88	98.72
8	15	2821	3	0.58	0.58	0.91	0.91	0.74	81.90	15.94	97.84
8	20	2845	4	1.08	1.08	1.16	1.18	0.84	88.05	10.37	98.42
8	25	2861	2	0.89	0.90	0.81	0.81	0.87	89.43	10.39	99.82
8	28	2875	3	1.60	1.61	1.02	1.02	0.87	84.17	15.34	99.51
8	31	2844	2	0.76	0.75	0.79	0.78	0.88	92.89	7.04	99.93
8	34	2813	3	0.47	0.46	0.80	0.79	0.73	86.01	13.20	99.21
8	40	2862	4	2.19	2.21	1.21	1.21	0.84	78.95	19.69	98.64
8	45	2884	2	1.11	1.10	0.78	0.78	0.88	88.38	11.55	99.93
8	50	2871	3	1.28	1.28	0.79	0.80	0.79	83.62	15.61	99.23
8	52	2837	2	0.76	0.76	0.94	0.93	0.87	90.40	7.80	98.20
8	56	2847	3	1.27	1.28	1.10	1.10	0.86	84.33	14.69	99.02
8	60	2867	4	2.75	2.75	1.12	1.12	0.85	83.43	15.49	98.92

**Table 11. 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	4	2953	2	0.83	0.82	0.76	0.77	0.80	84.66	15.07	99.73
9	6	2911	3	1.39	1.38	0.95	0.95	0.75	81.86	16.94	98.80
9	11	2905	2	0.51	0.51	0.84	0.84	0.82	91.87	6.23	98.10
9	15	2884	3	0.77	0.75	1.05	1.03	0.73	75.77	21.69	97.46
9	20	2930	4	1.45	1.46	0.93	0.92	0.63	69.40	26.54	95.94
9	23	2839	2	0.41	0.40	0.73	0.73	0.71	87.48	11.35	98.83
9	29	2895	3	0.59	0.60	0.92	0.92	0.76	86.79	12.45	99.24
9	33	2883	2	0.58	0.58	0.73	0.73	0.74	86.99	12.07	99.06
9	38	2938	3	1.73	1.72	0.92	0.92	0.73	72.91	25.90	98.81
9	40	2932	4	1.93	1.96	1.30	1.31	0.76	59.98	36.27	96.25
9	44	2928	2	0.47	0.47	0.82	0.82	0.88	96.62	2.90	99.52
9	49	2899	3	0.82	0.84	0.98	0.98	0.79	87.40	12.29	99.69
9	52	2926	2	1.25	1.26	0.80	0.81	0.86	93.33	6.60	99.93
9	55	2857	3	1.01	1.02	1.23	1.23	0.80	83.92	14.43	98.35
9	60	2859	4	0.99	0.99	1.17	1.17	0.74	87.25	11.56	98.81
10	5	2784	2	0.87	0.86	0.77	0.78	0.78	82.75	16.67	99.42
10	10	2724	3	0.49	0.49	0.84	0.84	0.71	85.34	14.19	99.53
10	12	2729	2	1.01	1.02	0.76	0.76	0.77	88.22	11.16	99.38
10	14	2745	3	0.60	0.60	0.85	0.85	0.72	82.89	16.56	99.45
10	20	2710	4	1.16	1.17	1.30	1.31	0.73	74.16	23.95	98.11
10	24	2667	2	0.53	0.53	0.81	0.81	0.72	85.05	13.74	98.79
10	27	2742	3	0.78	0.79	1.13	1.13	0.81	88.32	9.53	97.85
10	31	2768	2	1.35	1.34	0.71	0.72	0.62	73.38	24.56	97.94
10	34	2770	3	1.86	1.86	0.89	0.89	0.72	75.14	24.11	99.25
10	40	2763	4	1.76	1.74	1.01	1.00	0.66	72.04	24.00	96.04
10	45	2678	2	0.82	0.83	0.72	0.72	0.75	91.08	8.88	99.96
10	49	2717	3	0.93	0.92	1.15	1.15	0.80	85.52	13.26	98.78
10	51	2582	2	0.55	0.55	0.72	0.72	0.68	88.60	11.40	100.00
10	55	2740	3	0.92	0.91	0.72	0.71	0.70	89.82	9.74	99.56
10	60	2672	4	1.33	1.32	1.29	1.29	0.71	74.72	23.29	98.01



**Table 12. 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	5	2981	3	1.50	1.51	0.76	0.76	0.68	72.31	26.22	98.53
3	13	2956	3	1.59	1.59	0.88	0.89	0.72	68.28	30.91	99.19
3	16	2948	3	1.20	1.21	0.85	0.85	0.76	80.65	18.09	98.74
3	19	2927	2	1.29	1.27	0.76	0.77	0.71	78.80	18.74	97.54
3	22	2982	2	1.16	1.18	0.79	0.78	0.86	86.55	13.15	99.70
3	23	2966	2	0.45	0.46	0.64	0.65	0.79	87.94	11.82	99.76
3	28	2965	3	1.33	1.35	0.79	0.79	0.63	62.42	36.44	98.86
3	37	2960	2	1.14	1.15	0.70	0.69	0.75	79.68	20.32	100.00
4	5	3007	2	1.26	1.24	0.79	0.79	0.84	84.40	15.13	99.53
4	17	2997	3	1.33	1.33	0.89	0.89	0.86	86.09	13.81	99.90
4	18	2975	3	1.12	1.13	1.10	1.11	0.84	81.29	16.49	97.78
4	23	2974	2	0.80	0.81	0.70	0.70	0.79	85.04	14.76	99.80
4	29	3007	2	1.38	1.39	0.74	0.74	0.82	83.70	15.97	99.67
4	30	2988	2	0.58	0.59	0.65	0.65	0.73	82.01	17.65	99.66
4	40	2965	3	1.32	1.31	0.81	0.80	0.75	82.65	16.17	98.82
4	45	2918	2	0.44	0.44	0.60	0.61	0.68	85.76	13.76	99.52
4	48	2973	4	2.23	2.21	1.27	1.28	0.82	73.01	24.43	97.44
4	95	3008	2	1.56	1.57	0.68	0.68	0.86	90.65	9.12	99.77
4	96	2989	2	1.26	1.26	0.65	0.65	0.79	85.97	13.86	99.83
4	107	2985	3	1.44	1.45	1.14	1.12	0.82	81.54	13.99	95.53
4	109	2965	3	1.30	1.30	0.92	0.93	0.75	70.95	28.34	99.29
4	111	2967	2	0.78	0.79	0.71	0.71	0.77	83.54	15.92	99.46
5	8	2894	3	1.19	1.19	0.83	0.85	0.69	70.48	28.45	98.93
5	14	2935	3	1.56	1.57	0.84	0.85	0.88	89.47	10.43	99.90
5	17	2912	2	0.80	0.80	0.52	0.52	0.61	81.17	18.76	99.93
5	18	2914	3	2.11	2.12	1.18	1.18	0.86	80.67	17.48	98.15
5	25	2944	2	1.19	1.18	0.80	0.80	0.92	92.09	7.88	99.97
5	26	2917	2	1.00	1.01	0.91	0.91	0.86	84.13	15.29	99.42
5	28	2918	3	1.58	1.60	1.24	1.24	0.85	82.35	13.63	95.98
5	37	2903	3	1.40	1.41	0.82	0.83	0.76	82.33	16.43	98.76
5	39	2880	3	0.97	0.97	0.87	0.87	0.75	79.55	19.44	98.99
5	50	2834	2	1.39	1.39	0.67	0.67	0.72	85.36	14.18	99.54
5	98	2935	2	1.18	1.18	0.86	0.86	0.92	93.14	6.48	99.62
5	99	2931	3	1.28	1.28	0.95	0.95	0.86	83.87	15.65	99.52
5	104	2938	2	1.72	1.73	0.57	0.57	0.80	90.26	9.23	99.49
5	105	2919	2	1.41	1.42	0.64	0.63	0.73	82.78	16.91	99.69

**Table 12. 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	4	2803	2	0.63	0.63	0.71	0.71	0.74	80.73	18.52	99.25
6	6	2806	3	1.05	1.04	0.81	0.81	0.67	69.72	28.35	98.07
6	10	2795	2	0.69	0.70	0.79	0.79	0.72	79.43	17.42	96.85
6	20	2725	3	2.17	2.17	1.04	1.04	0.79	88.08	10.89	98.97
6	21	2746	2	0.69	0.67	0.78	0.78	0.75	83.14	15.58	98.72
6	27	2811	2	1.22	1.22	0.90	0.90	0.88	86.83	12.64	99.47
6	29	2791	3	1.68	1.70	1.24	1.23	0.83	81.51	13.82	95.33
6	33	2787	3	1.13	1.14	0.97	0.98	0.71	68.33	27.75	96.08
6	37	2766	2	0.41	0.41	0.57	0.56	0.53	74.55	24.62	99.17
6	45	2724	3	1.12	1.09	0.89	0.89	0.71	78.36	20.10	98.46
6	51	2607	3	1.10	1.10	0.86	0.87	0.61	77.78	19.80	97.58
6	101	2804	2	0.73	0.73	0.64	0.64	0.57	70.64	28.14	98.78
6	103	2768	2	0.93	0.94	0.86	0.86	0.80	83.10	15.59	98.69
6	111	2789	3	1.52	1.54	0.93	0.93	0.73	66.86	32.10	98.96
7	4	2819	3	2.27	2.27	0.95	0.95	0.82	87.61	11.22	98.83
7	5	2827	2	0.76	0.75	0.78	0.78	0.78	82.52	16.56	99.08
7	14	2835	3	1.51	1.50	0.99	0.99	0.71	69.83	25.75	95.58
7	24	2835	3	1.19	1.18	0.81	0.81	0.74	80.59	17.96	98.55
7	34	2844	3	1.48	1.47	0.84	0.83	0.79	82.62	17.02	99.64
7	35	2839	2	0.69	0.67	0.67	0.67	0.59	75.41	21.45	96.86
7	41	2828	3	2.01	2.01	1.07	1.08	0.82	78.97	19.12	98.09
7	43	2824	3	1.19	1.20	0.92	0.93	0.79	87.46	10.52	97.98
7	44	2776	2	1.39	1.38	0.84	0.85	0.82	89.11	9.95	99.06
7	93	2853	2	1.28	1.28	0.69	0.69	0.69	74.20	25.41	99.61
7	94	2852	2	0.99	1.00	0.65	0.66	0.68	76.53	23.26	99.79
7	95	2810	3	1.49	1.50	1.20	1.19	0.70	67.96	20.87	88.83
7	110	2813	2	0.97	0.97	0.73	0.74	0.77	84.11	15.40	99.51
7	111	2822	2	0.93	0.92	0.63	0.64	0.64	76.69	22.96	99.65
8	12	2804	2	1.50	1.49	0.66	0.66	0.78	90.61	8.93	99.54
8	15	2807	3	1.92	1.92	1.05	1.05	0.86	93.87	5.28	99.15
8	25	2823	2	1.13	1.13	0.65	0.66	0.63	73.12	26.77	99.89
8	28	2770	3	1.70	1.72	0.85	0.85	0.68	74.60	24.86	99.46
8	29	2723	2	0.76	0.77	0.83	0.83	0.79	89.79	9.95	99.74
8	30	2780	3	1.68	1.67	0.84	0.84	0.65	73.46	24.77	98.23
8	38	2727	2	1.19	1.18	0.81	0.80	0.74	83.44	15.90	99.34
8	39	2704	2	1.38	1.38	0.81	0.81	0.74	86.43	12.46	98.89
8	89	2830	2	1.42	1.41	0.64	0.66	0.62	73.00	26.50	99.50
8	90	2828	2	1.10	1.10	0.65	0.64	0.61	73.02	26.27	99.29
8	91	2819	3	1.11	1.10	0.79	0.78	0.69	80.48	17.32	97.80
8	96	2796	3	1.67	1.64	1.18	1.16	0.68	68.03	19.78	87.81
8	103	2799	2	1.25	1.24	0.75	0.74	0.74	81.87	17.56	99.43
8	111	2736	4	2.48	2.47	1.28	1.28	0.78	90.27	9.03	99.30

**Table 12. 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	2895	3	1.88	1.89	0.91	0.92	0.70	77.08	21.22	98.30
9	13	2900	3	1.11	1.13	0.94	0.94	0.71	79.08	18.16	97.24
9	14	2853	3	1.23	1.23	0.93	0.94	0.70	85.86	11.32	97.18
9	15	2910	3	2.44	2.45	0.81	0.80	0.75	89.16	10.60	99.76
9	16	2856	3	2.05	2.05	1.05	1.05	0.79	93.86	5.02	98.88
9	25	2870	3	1.54	1.52	1.15	1.15	0.70	65.18	29.28	94.46
9	28	2807	3	1.59	1.57	0.96	0.97	0.64	66.98	31.70	98.68
9	43	2846	3	1.07	1.06	0.92	0.91	0.65	69.43	28.98	98.41
9	45	2813	3	1.26	1.26	0.97	0.96	0.69	79.46	19.30	98.76
9	97	2825	3	0.93	0.91	0.76	0.76	0.61	79.53	19.33	98.86
9	100	2816	2	0.75	0.75	0.79	0.79	0.74	87.38	12.30	99.68
9	105	2791	3	1.73	1.74	1.20	1.19	0.65	68.57	22.74	91.31
9	106	2667	2	0.81	0.83	0.74	0.74	0.51	64.34	33.40	97.74
9	112	2685	2	1.00	1.01	0.73	0.73	0.54	71.12	27.56	98.68
10	7	2601	3	1.27	1.26	0.93	0.93	0.60	71.46	26.08	97.54
10	10	2543	3	2.05	2.07	0.95	0.93	0.47	50.20	40.89	91.09
10	15	2615	3	1.48	1.47	0.86	0.86	0.51	57.19	38.74	95.93
10	16	2678	3	2.03	2.02	1.02	1.01	0.75	94.28	4.86	99.14
10	32	2537	3	1.36	1.34	1.05	1.05	0.63	74.53	23.54	98.07
10	37	2661	3	1.61	1.60	0.83	0.86	0.50	56.90	37.57	94.47
10	45	2608	2	0.84	0.85	0.83	0.83	0.72	88.03	11.62	99.65
10	49	2628	3	0.98	0.96	0.79	0.78	0.58	76.58	21.97	98.55
10	50	2580	3	1.86	1.87	1.17	1.16	0.61	67.76	23.94	91.70
10	51	2558	3	1.30	1.29	1.15	1.14	0.61	64.62	29.08	93.70
10	95	2586	2	0.92	0.92	0.75	0.75	0.46	57.57	38.74	96.31
10	101	2555	2	1.10	1.11	0.72	0.72	0.54	69.56	29.57	99.13
10	106	2624	3	1.59	1.58	1.07	1.08	0.66	74.18	22.76	96.94
10	116	2695	3	1.65	1.65	0.82	0.82	0.62	72.41	26.85	99.26

**Table 13. 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	2968	1	0.85	0.85	0.36	0.36	0.91	98.01	1.99	100.00
3	1B	2968	1	0.77	0.77	0.42	0.42	0.94	98.11	1.89	100.00
3	1C	2968	1	0.79	0.79	0.41	0.40	0.90	97.04	2.96	100.00
3	1D	2968	1	0.69	0.69	0.46	0.46	0.88	95.28	4.72	100.00
3	1E	2968	1	0.75	0.75	0.43	0.43	0.92	97.47	2.53	100.00
3	1F	2968	1	0.75	0.75	0.43	0.43	0.91	97.07	2.93	100.00
3	14A	2961	2	1.10	1.11	0.40	0.40	0.48	84.10	15.80	99.90
3	14B	2961	1	0.96	0.97	0.19	0.18	0.49	96.75	3.25	100.00
3	14C	2961	1	0.82	0.81	0.38	0.39	0.54	86.43	13.57	100.00
3	14D	2961	1	0.93	0.93	0.25	0.26	0.49	93.44	6.56	100.00
3	28A	2957	2	1.14	1.14	0.40	0.40	0.46	83.71	16.29	100.00
3	28B	2957	1	0.98	0.98	0.15	0.15	0.43	97.63	2.37	100.00
3	28C	2957	1	0.75	0.75	0.43	0.43	0.60	85.50	14.50	100.00
3	28D	2957	1	0.93	0.92	0.26	0.27	0.43	92.17	7.83	100.00
3	39A	2957	2	1.04	1.03	0.32	0.31	0.47	89.58	10.42	100.00
3	39B	2957	1	0.96	0.96	0.20	0.20	0.54	96.52	3.48	100.00
3	39C	2957	1	0.67	0.67	0.47	0.47	0.54	79.84	20.16	100.00
3	39D	2957	1	0.89	0.89	0.31	0.32	0.49	89.78	10.22	100.00
4	1	3031	1	0.98	0.98	0.16	0.14	0.83	99.24	0.76	100.00
4	2A	3017	1	0.78	0.78	0.41	0.41	0.89	96.49	3.51	100.00
4	2B	3016	1	0.81	0.82	0.39	0.39	0.92	98.11	1.89	100.00
4	2C	3017	1	0.54	0.53	0.50	0.50	0.91	95.72	4.28	100.00
4	2D	3016	1	0.66	0.66	0.47	0.47	0.93	97.12	2.88	100.00
4	2E	3017	1	0.43	0.43	0.50	0.50	0.93	97.12	2.88	100.00
4	2F	3017	1	0.93	0.93	0.26	0.26	0.76	96.95	3.05	100.00
4	3A	3016	4	2.59	2.58	0.87	0.86	0.63	63.48	33.23	96.71
4	3B	3016	4	2.61	2.59	0.82	0.82	0.65	63.42	34.36	97.78
4	3C	3016	2	1.89	1.89	0.31	0.32	0.44	89.29	10.65	99.94
4	51	2912	4	2.50	2.49	0.79	0.79	0.59	68.82	30.25	99.07
4	64	2994	4	2.45	2.46	0.69	0.70	0.61	69.49	29.95	99.44
4	93	2959	4	2.19	2.19	0.71	0.73	0.60	71.68	27.72	99.40
5	1	2961	1	0.99	0.99	0.11	0.12	0.89	99.73	0.27	100.00
5	2A	2948	1	0.47	0.47	0.50	0.50	0.94	97.29	2.71	100.00
5	2B	2947	1	0.38	0.38	0.49	0.49	0.96	98.57	1.43	100.00
5	2C	2948	1	0.67	0.67	0.47	0.47	0.90	95.96	4.04	100.00
5	2D	2948	1	0.61	0.61	0.49	0.49	0.89	95.32	4.68	100.00
5	2E	2948	1	0.65	0.65	0.48	0.48	0.93	97.05	2.95	100.00
5	2F	2948	1	0.37	0.37	0.48	0.48	0.93	97.15	2.85	100.00
5	3A	2947	4	2.47	2.46	1.22	1.23	0.67	62.74	28.91	91.65
5	3B	2947	4	2.84	2.84	0.76	0.76	0.62	63.59	34.98	98.57
5	3C	2947	2	1.92	1.92	0.28	0.27	0.46	92.06	7.91	99.97
5	69	2930	4	2.74	2.73	0.73	0.74	0.59	64.28	34.53	98.81
5	92	2886	4	2.41	2.43	0.70	0.71	0.60	72.49	27.20	99.69
5	116	2927	4	2.56	2.59	0.71	0.72	0.61	68.74	30.47	99.21

**Table 13. 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	2850	1	0.98	0.98	0.13	0.12	0.86	99.58	0.42	100.00
6	2A	2829	1	0.78	0.78	0.42	0.42	0.93	98.20	1.80	100.00
6	2B	2830	1	0.81	0.81	0.39	0.39	0.91	97.99	2.01	100.00
6	2C	2828	1	0.89	0.90	0.31	0.30	0.73	95.40	4.60	100.00
6	2D	2830	1	0.62	0.62	0.48	0.48	0.93	97.38	2.62	100.00
6	2E	2829	1	0.75	0.75	0.43	0.43	0.91	97.49	2.51	100.00
6	2F	2829	1	0.87	0.87	0.33	0.33	0.89	98.16	1.84	100.00
6	3A	2829	4	2.60	2.61	0.75	0.75	0.58	64.25	33.73	97.98
6	3B	2829	4	2.61	2.61	0.72	0.72	0.58	64.21	34.48	98.69
6	3C	2829	2	1.88	1.90	0.33	0.31	0.43	88.40	11.60	100.00
6	79	2805	4	2.53	2.52	0.70	0.70	0.62	72.01	27.38	99.39
6	100	2789	4	2.67	2.67	0.64	0.65	0.58	74.04	25.60	99.64
6	116	2805	4	2.55	2.54	0.66	0.66	0.64	78.50	21.26	99.76
7	1	2893	1	0.99	0.98	0.12	0.13	0.73	99.17	0.83	100.00
7	2A	2876	1	0.75	0.76	0.43	0.43	0.94	98.50	1.50	100.00
7	2B	2875	1	0.77	0.77	0.42	0.42	0.90	97.14	2.86	100.00
7	2C	2876	1	0.72	0.72	0.45	0.45	0.94	98.09	1.91	100.00
7	2D	2876	1	0.58	0.58	0.49	0.49	0.95	98.37	1.63	100.00
7	2E	2875	1	0.50	0.51	0.50	0.50	0.90	95.76	4.24	100.00
7	2F	2876	1	0.43	0.43	0.50	0.49	0.95	98.02	1.98	100.00
7	3A	2877	4	2.51	2.51	0.81	0.81	0.67	66.67	31.84	98.51
7	3B	2877	4	2.55	2.56	0.72	0.73	0.61	65.52	33.40	98.92
7	3C	2877	2	1.87	1.85	0.34	0.36	0.38	84.39	15.57	99.96
7	23	2842	4	2.43	2.46	0.65	0.66	0.57	70.69	28.88	99.57
7	60	2858	4	2.74	2.75	0.70	0.72	0.66	74.20	25.55	99.75
7	92	2791	4	2.31	2.33	0.72	0.72	0.57	70.75	28.54	99.29
8	1	2898	1	0.97	0.97	0.16	0.16	0.95	99.76	0.24	100.00
8	2A	2861	1	0.79	0.80	0.40	0.40	0.87	96.96	3.04	100.00
8	2B	2862	1	0.61	0.61	0.49	0.49	0.94	98.22	1.78	100.00
8	2C	2861	1	0.92	0.92	0.27	0.27	0.73	96.71	3.29	100.00
8	2D	2862	1	0.74	0.75	0.44	0.43	0.86	95.67	4.33	100.00
8	2E	2862	1	0.50	0.50	0.50	0.50	0.95	98.43	1.57	100.00
8	2F	2862	1	0.80	0.80	0.40	0.40	0.91	98.11	1.89	100.00
8	3A	2858	4	2.84	2.84	0.66	0.68	0.54	73.78	24.15	97.93
8	3B	2857	4	2.86	2.85	0.60	0.61	0.55	73.64	25.87	99.51
8	3C	2857	2	1.91	1.90	0.30	0.30	0.43	89.98	9.95	99.93
8	22	2823	4	2.62	2.59	0.73	0.73	0.61	73.56	25.66	99.22
8	63	2844	4	2.67	2.67	0.67	0.69	0.62	74.75	24.82	99.57
8	88	2776	4	2.44	2.43	0.74	0.74	0.58	73.22	26.16	99.38

**Table 13. 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	3024	1	0.96	0.96	0.20	0.19	0.94	99.57	0.43	100.00
9	2A	2942	1	0.22	0.22	0.41	0.41	0.86	97.48	2.52	100.00
9	2B	2943	1	0.66	0.65	0.47	0.48	0.73	89.43	10.57	100.00
9	2C	2945	1	0.78	0.78	0.41	0.41	0.84	96.40	3.60	100.00
9	2D	2944	1	0.40	0.40	0.49	0.49	0.88	96.64	3.36	100.00
9	2E	2942	1	0.55	0.56	0.50	0.50	0.83	93.74	6.26	100.00
9	2F	2944	1	0.37	0.37	0.48	0.48	0.82	93.34	6.66	100.00
9	3A	2930	4	2.65	2.64	0.79	0.78	0.58	67.61	30.99	98.60
9	3B	2931	4	2.65	2.64	0.75	0.74	0.57	66.56	32.27	98.83
9	3C	2933	2	1.86	1.87	0.35	0.34	0.47	87.40	12.60	100.00
9	68	2902	4	2.76	2.75	0.68	0.69	0.57	74.69	24.97	99.66
9	96	2851	4	2.66	2.66	0.72	0.72	0.55	70.21	29.33	99.54
9	116	2866	4	2.33	2.34	0.72	0.75	0.55	68.97	30.23	99.20
10	1	2888	1	0.96	0.96	0.21	0.20	0.93	99.38	0.62	100.00
10	2A	2802	1	0.18	0.18	0.38	0.39	0.85	98.07	1.93	100.00
10	2B	2802	1	0.71	0.71	0.45	0.45	0.86	96.50	3.50	100.00
10	2C	2802	1	0.59	0.59	0.49	0.49	0.86	95.86	4.14	100.00
10	2D	2800	1	0.95	0.95	0.22	0.22	0.54	96.07	3.93	100.00
10	2E	2799	1	0.65	0.66	0.48	0.48	0.80	93.38	6.62	100.00
10	2F	2801	1	0.66	0.67	0.47	0.47	0.89	97.57	2.43	100.00
10	3A	2804	4	2.67	2.67	0.67	0.68	0.58	74.09	25.45	99.54
10	3B	2805	4	2.66	2.67	0.65	0.66	0.56	72.64	26.79	99.43
10	3C	2805	2	1.81	1.82	0.40	0.39	0.44	82.84	17.12	99.96
10	27	2687	4	2.41	2.41	0.81	0.81	0.53	63.53	34.64	98.17
10	74	2739	4	2.69	2.68	0.80	0.82	0.57	66.05	33.11	99.16
10	94	2709	4	2.37	2.38	0.75	0.76	0.55	70.82	28.37	99.19

**Table 14. 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	7	2932	2	0.76	0.76	0.73	0.74	0.79	81.37	17.91	99.28
5	21	2934	1	0.34	0.35	0.47	0.48	0.84	93.55	6.45	100.00
5	22	2938	1	0.66	0.66	0.47	0.47	0.95	98.36	1.64	100.00
5	23	2933	2	1.02	1.01	0.77	0.78	0.74	74.72	23.75	98.47
5	24	2937	1	0.41	0.40	0.49	0.49	0.74	87.69	12.31	100.00
5	25	2926	2	1.37	1.38	0.82	0.82	0.82	85.64	12.14	97.78
5	29	2938	2	0.69	0.69	0.82	0.82	0.72	77.19	18.22	95.41
5	33	2922	2	0.22	0.22	0.49	0.49	0.62	86.78	12.06	98.84
5	38	2912	1	0.46	0.46	0.50	0.50	0.81	91.31	8.69	100.00
5	41	2922	2	1.12	1.11	0.94	0.94	0.91	92.47	6.06	98.53
5	45	2930	2	1.25	1.26	0.78	0.77	0.89	89.32	10.51	99.83
5	48	2941	2	1.56	1.56	0.56	0.57	0.91	95.82	4.15	99.97
5	53	2928	1	0.27	0.28	0.45	0.45	0.88	96.07	3.93	100.00
5	57	2933	1	0.52	0.52	0.50	0.50	0.63	81.95	18.05	100.00
5	61	2937	2	1.81	1.81	0.46	0.46	0.78	93.02	6.61	99.63
5	63	2888	2	1.17	1.18	0.64	0.63	0.88	97.65	2.29	99.94
5	71	2938	2	0.83	0.82	0.61	0.62	0.80	87.61	11.91	99.52
5	75	2923	2	0.64	0.65	0.70	0.69	0.83	87.54	12.05	99.59
8	2	2718	2	0.63	0.63	0.61	0.61	0.75	96.90	3.10	100.00
8	8	2191	2	0.17	0.17	0.43	0.43	0.48	98.76	1.24	100.00
8	12	2829	1	0.07	0.07	0.26	0.26	0.60	95.37	4.63	100.00
8	19	2854	2	0.94	0.95	0.80	0.80	0.81	83.57	15.55	99.12
8	20	2852	1	0.44	0.45	0.50	0.50	0.83	92.88	7.12	100.00
8	21	2844	1	0.75	0.78	0.43	0.41	0.63	87.55	12.45	100.00
8	22	2876	4	2.70	2.67	1.24	1.24	0.77	66.12	26.71	92.83
8	23	2835	1	0.78	0.78	0.41	0.41	0.84	96.54	3.46	100.00
8	24	2831	1	0.27	0.26	0.44	0.44	0.82	94.73	5.27	100.00
8	25	2818	1	0.34	0.34	0.47	0.47	0.83	94.85	5.15	100.00
8	26	2766	2	0.55	0.55	0.86	0.86	0.88	98.81	0.94	99.75
8	31	2854	2	0.56	0.56	0.74	0.74	0.80	84.50	14.94	99.44
8	33	2789	1	0.31	0.30	0.46	0.46	0.63	86.13	13.87	100.00
8	42	2826	2	1.07	1.06	0.84	0.84	0.76	77.96	20.30	98.26
8	49	2823	1	0.62	0.62	0.49	0.49	0.70	87.42	12.58	100.00
8	53	2839	2	1.27	1.28	0.84	0.84	0.87	90.41	9.02	99.43
8	58	2864	2	0.77	0.78	0.79	0.80	0.86	86.66	13.23	99.89
8	62	2658	3	0.52	0.53	0.61	0.61	0.57	89.06	10.22	99.28
8	66	2736	1	0.48	0.48	0.50	0.50	0.78	93.25	6.75	100.00
8	69	2836	3	0.52	0.51	0.72	0.71	0.75	88.64	10.90	99.54
8	71	2808	1	0.24	0.24	0.43	0.42	0.88	98.29	1.71	100.00
8	76	2843	2	0.69	0.69	0.69	0.70	0.69	76.78	22.45	99.23
8	78	2658	2	0.48	0.48	0.52	0.53	0.67	97.58	2.42	100.00

**Table 14. 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	7	2710	1	0.24	0.24	0.43	0.43	0.73	93.89	6.11	100.00
10	17	2529	2	0.78	0.78	0.78	0.77	0.62	81.18	17.83	99.01
10	22	2734	4	2.45	2.46	1.44	1.43	0.81	83.52	15.13	98.65
10	23	2678	2	1.05	1.05	0.89	0.90	0.83	95.66	3.85	99.51
10	24	2636	2	1.02	1.02	0.78	0.78	0.76	93.29	6.60	99.89
10	25	2648	1	0.39	0.40	0.49	0.49	0.69	89.81	10.19	100.00
10	26	2658	1	0.32	0.33	0.47	0.47	0.65	88.45	11.55	100.00
10	27	2683	1	0.34	0.35	0.48	0.48	0.67	88.72	11.28	100.00
10	29	2620	1	0.68	0.68	0.47	0.47	0.71	92.63	7.37	100.00
10	31	2679	2	1.07	1.08	0.71	0.72	0.68	82.78	16.40	99.18
10	34	2707	1	0.62	0.62	0.48	0.49	0.71	89.61	10.39	100.00
10	36	2614	2	0.54	0.55	0.67	0.68	0.60	80.57	18.12	98.69
10	40	2740	2	0.92	0.93	0.77	0.76	0.80	90.47	9.27	99.74
10	44	2584	2	0.67	0.66	0.78	0.77	0.67	86.96	11.18	98.14
10	47	2692	2	1.60	1.59	0.62	0.63	0.54	75.54	22.53	98.07
10	52	2658	2	0.33	0.34	0.63	0.63	0.68	91.21	8.26	99.47
10	60	2723	2	0.79	0.80	0.76	0.76	0.78	89.44	10.41	99.85
10	64	2675	1	0.50	0.50	0.50	0.50	0.76	93.00	7.00	100.00
10	68	2689	2	0.73	0.74	0.74	0.74	0.63	75.01	23.43	98.44
10	74	2721	2	1.13	1.13	0.80	0.80	0.83	95.84	3.94	99.78
10	78	2706	2	1.64	1.64	0.66	0.65	0.69	87.64	11.39	99.03
10	80	2385	2	0.22	0.22	0.46	0.46	0.52	96.12	3.67	99.79
10	82	2663	1	0.67	0.67	0.47	0.47	0.72	92.54	7.46	100.00



**Table 15. 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	267	3	1.54	1.54	1.24	1.25	0.96	98.88	1.12	100.00
3	2	266	3	1.88	1.86	1.34	1.35	0.94	96.60	3.02	99.62
3	8	266	2	1.20	1.21	0.84	0.84	0.91	94.36	5.64	100.00
3	17	257	3	1.70	1.66	1.05	1.10	0.70	69.26	26.85	96.11
3	25	267	2	1.43	1.43	0.74	0.71	0.74	80.83	18.05	98.88
3	26	261	2	0.75	0.74	0.85	0.85	0.77	86.21	10.73	96.94
3	32	266	3	1.17	1.14	0.93	0.93	0.89	95.11	4.51	99.62
3	36	266	2	1.21	1.20	0.78	0.79	0.84	86.47	13.16	99.63
4	13	13	3	1.31	1.23	0.95	0.83	0.84	76.92	23.08	100.00
4	14	13	2	0.69	0.77	0.48	0.60	0.86	92.31	7.69	100.00
4	29	13	3	2.62	2.54	0.96	0.97	0.96	92.31	7.69	100.00
4	31	12	2	0.17	0.17	0.58	0.58	0.72	100.00	0.00	100.00
4	33	13	3	1.15	1.15	1.07	0.99	0.76	53.85	46.15	100.00
4	34	13	3	1.54	1.31	1.20	1.32	0.87	61.54	38.46	100.00
4	42	12	2	0.75	0.77	0.75	0.83	0.72	91.67	8.33	100.00
4	44	12	2	1.17	1.25	0.83	0.75	0.76	91.67	8.33	100.00
4	45	12	3	0.83	0.90	1.11	1.10	0.45	70.00	30.00	100.00
4	97	12	2	1.17	0.92	0.72	0.90	0.59	58.33	41.67	100.00
4	98	12	3	1.67	1.67	1.15	1.07	0.69	66.67	33.33	100.00
4	100	13	2	0.62	0.58	0.77	0.79	0.60	75.00	25.00	100.00
4	108	13	2	1.15	1.23	0.90	0.93	0.95	92.31	7.69	100.00
4	116	13	3	1.38	1.38	1.19	1.19	0.94	84.62	15.38	100.00

**Table 16. 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	110	1	0.75	0.75	0.44	0.44	0.98	100.00	0.00	100.00
3	4B	110	1	0.24	0.24	0.43	0.43	0.98	100.00	0.00	100.00
3	4C	110	1	0.68	0.67	0.47	0.47	0.96	99.09	0.91	100.00
3	4D	110	1	0.65	0.66	0.48	0.47	0.96	99.09	0.91	100.00
3	4E	110	1	0.49	0.48	0.50	0.50	0.96	99.09	0.91	100.00
3	4F	110	1	0.82	0.81	0.39	0.39	0.94	99.09	0.91	100.00
3	16A	110	2	1.41	1.39	0.65	0.65	0.76	81.82	18.18	100.00
3	16B	110	1	0.89	0.87	0.31	0.33	0.39	87.27	12.73	100.00
3	16C	110	1	0.75	0.77	0.43	0.42	0.64	87.27	12.73	100.00
3	16D	110	1	0.95	0.95	0.23	0.23	0.77	98.18	1.82	100.00
3	27A	110	2	1.05	1.12	0.74	0.75	0.84	87.27	11.82	99.09
3	27B	110	1	0.93	0.92	0.26	0.28	0.66	95.45	4.55	100.00
3	27C	110	1	0.70	0.65	0.46	0.48	0.72	88.18	11.82	100.00
3	27D	110	1	0.95	0.94	0.23	0.25	0.72	97.27	2.73	100.00
3	39A	110	2	1.15	1.23	0.77	0.77	0.69	76.36	20.00	96.36
3	39B	110	1	0.89	0.90	0.31	0.30	0.55	91.82	8.18	100.00
3	39C	110	1	0.63	0.66	0.49	0.47	0.63	83.64	16.36	100.00
3	39D	110	1	0.91	0.95	0.29	0.21	0.50	93.64	6.36	100.00
4	1	13	1	0.92	0.92	0.28	0.28	1.00	100.00	0.00	100.00
4	2A	12	1	0.67	0.67	0.49	0.49	0.85	100.00	0.00	100.00
4	2B	12	1	0.50	0.50	0.52	0.52	0.87	100.00	0.00	100.00
4	2C	12	1	0.33	0.58	0.49	0.51	0.49	75.00	25.00	100.00
4	2D	12	1	0.83	0.83	0.39	0.39	0.80	100.00	0.00	100.00
4	2E	12	1	0.75	0.67	0.45	0.49	0.69	91.67	8.33	100.00
4	2F	12	1	0.17	0.17	0.39	0.39	0.80	100.00	0.00	100.00
4	3A	12	4	1.92	1.75	1.44	1.22	0.70	66.67	33.33	100.00
4	3B	12	4	1.83	1.75	1.11	1.06	0.65	75.00	25.00	100.00
4	3C	12	2	1.75	1.67	0.62	0.65	0.69	91.67	8.33	100.00
4	25	12	4	1.42	1.25	1.38	1.29	0.70	66.67	33.33	100.00
4	63	13	4	2.62	2.62	1.12	1.12	1.00	100.00	0.00	100.00
4	90	11	4	2.09	2.09	0.83	0.83	0.55	100.00	0.00	100.00

**Table 17. Rater Severity/Leniency Study Results**

Content Area	Grade	2007 Item Number	2009 Item Number	Valid N	Mean 2007	Mean 2009	Mean Difference	STD 2007	STD 2009	% Adjacent	% Exact	% Discrepant	Corr	Intra Class Corr	Weighted Kappa
Mathematics	3	38	38	999	1.56	1.57	-0.01	0.61	0.65	13.31	86.59	0.10	0.83	0.91	0.83
Mathematics	3	40	40	1000	2.05	2.01	0.04	0.85	0.85	13.50	86.10	0.40	0.90	0.95	0.90
Mathematics	4	27	28	999	1.56	1.57	-0.01	0.61	0.61	4.20	95.70	0.10	0.94	0.97	0.94
Mathematics	4	23	23	1001	2.65	2.87	-0.22	0.91	0.87	34.47	57.94	7.59	0.58	0.78	0.56
Mathematics	4	63	63	997	1.80	1.78	0.02	1.11	1.14	5.62	93.68	0.70	0.97	0.98	0.96
Mathematics	5	3	3	998	1.23	1.31	-0.08	0.85	0.81	14.73	84.87	0.40	0.89	0.94	0.88
Mathematics	5	54	54	992	2.49	2.43	0.06	0.77	0.76	21.77	77.02	1.21	0.78	0.89	0.77
Mathematics	5	23	23	993	2.40	2.42	-0.02	1.42	1.35	19.54	79.76	0.70	0.94	0.97	0.94
Mathematics	6	51	51	995	1.89	1.81	0.08	1.01	1.00	15.18	83.52	1.31	0.90	0.95	0.90
Mathematics	6	40	40	992	1.90	1.87	0.03	1.37	1.35	17.94	81.15	0.91	0.94	0.97	0.94
Mathematics	6	44	44	986	1.24	1.27	-0.03	0.81	0.78	19.07	77.99	2.94	0.76	0.88	0.76
Mathematics	7	20	20	982	1.73	1.77	-0.04	1.07	1.07	14.66	84.93	0.41	0.93	0.96	0.93
Mathematics	7	29	26	973	0.68	0.52	0.16	0.73	0.73	18.71	79.34	1.95	0.78	0.88	0.76
Mathematics	7	57	57	989	2.52	2.40	0.12	0.74	0.76	19.62	79.98	0.40	0.83	0.91	0.81
Mathematics	8	40	40	980	2.50	2.51	-0.01	1.37	1.18	32.04	64.59	3.37	0.86	0.93	0.85
Mathematics	8	28	28	975	1.98	1.99	-0.01	0.89	0.94	24.72	73.95	1.33	0.82	0.91	0.82
Mathematics	8	50	52	973	0.99	1.06	-0.07	0.96	0.96	10.07	87.77	2.16	0.90	0.95	0.90
Mathematics	9	30	33	951	0.57	0.67	-0.10	0.76	0.73	17.35	80.97	1.68	0.79	0.89	0.78
Mathematics	9	6	6	949	1.33	1.32	0.01	0.88	0.93	16.65	83.14	0.21	0.90	0.95	0.89
Mathematics	9	40	40	950	2.12	2.03	0.09	1.26	1.21	39.26	57.16	3.58	0.83	0.91	0.82
Mathematics	10	40	40	950	1.78	1.63	0.15	0.95	0.89	30.11	65.58	4.32	0.73	0.86	0.71
Mathematics	10	12	12	932	1.05	1.05	0.00	0.66	0.67	13.41	86.27	0.32	0.84	0.92	0.84
Mathematics	10	48	49	935	1.00	1.06	-0.06	1.13	1.13	22.78	75.40	1.82	0.88	0.94	0.88

**Table 17. Rater Severity/Leniency Study Results (Continued)**

Content Area	Grade	2007 Item Number	2009 Item Number	Valid N	Mean 2007	Mean 2009	Mean Difference	STD 2007	STD 2009	% Adjacent	% Exact	% Discrepant	Corr	Intra Class Corr	Weighted Kappa
Reading	3	18	19	920	1.18	1.29	-0.11	0.82	0.81	17.07	79.24	3.70	0.77	0.88	0.76
Reading	3	21	22	986	1.23	1.14	0.09	0.79	0.81	18.05	81.54	0.41	0.85	0.92	0.85
Reading	4	95	95	992	1.64	1.67	-0.03	0.64	0.62	9.98	90.02	0.00	0.88	0.94	0.88
Reading	4	29	29	992	1.41	1.36	0.05	0.75	0.74	14.92	84.68	0.40	0.85	0.93	0.85
Reading	5	104	104	994	1.76	1.74	0.02	0.52	0.54	11.37	88.23	0.40	0.77	0.88	0.77
Reading	5	36	37	983	1.48	1.45	0.03	0.82	0.84	25.64	72.63	1.73	0.76	0.88	0.76
Reading	6	27	27	993	1.40	1.37	0.03	0.85	0.86	12.19	87.21	0.60	0.90	0.95	0.90
Reading	6	9	10	988	0.95	0.78	0.17	0.85	0.81	20.04	75.91	4.05	0.76	0.87	0.74
Reading	7	94	95	945	1.43	1.37	0.06	1.19	1.19	27.41	65.93	6.67	0.81	0.90	0.81
Reading	8	39	39	918	1.44	1.47	-0.03	0.80	0.78	12.75	85.95	1.31	0.86	0.93	0.85
Writing	3	28	28	992	1.13	1.14	-0.01	0.38	0.39	15.93	83.97	0.10	0.45	0.72	0.45
Writing	3	28	28	992	0.98	0.99	-0.01	0.13	0.10	1.61	98.39	0.00	0.43	0.71	0.42
Writing	3	28	28	992	0.83	0.82	0.01	0.38	0.39	12.70	87.30	0.00	0.56	0.78	0.56
Writing	3	28	28	992	0.89	0.97	-0.08	0.31	0.17	8.97	91.03	0.00	0.38	0.65	0.31
Writing	5	91	92	974	2.70	2.48	0.22	0.71	0.67	29.06	70.74	0.21	0.74	0.85	0.70
Writing	6	98	100	988	2.71	2.72	-0.01	0.67	0.63	25.10	74.70	0.20	0.68	0.84	0.68
Writing	7	91	92	963	2.30	2.14	0.16	0.85	0.65	32.09	65.52	2.39	0.68	0.82	0.64
Writing	9	116	116	938	2.15	2.20	-0.05	0.80	0.72	28.25	71.00	0.75	0.73	0.86	0.73
Writing	10	93	94	957	2.11	2.27	-0.16	0.79	0.80	27.48	71.68	0.84	0.77	0.88	0.76

**Table 17. Rater Severity/Leniency Study Results (Concluded)**

<b>Content Area</b>	<b>Grade</b>	<b>2007 Item Number</b>	<b>2009 Item Number</b>	<b>Valid N</b>	<b>Mean 2007</b>	<b>Mean 2009</b>	<b>Mean Difference</b>	<b>STD 2007</b>	<b>STD 2009</b>	<b>% Adjacent</b>	<b>% Exact</b>	<b>% Discrepant</b>	<b>Corr</b>	<b>Intra Class Corr</b>	<b>Weighted Kappa</b>
Sp. Reading	3	26	26	250	0.94	1.00	-0.06	0.85	0.81	26.80	68.80	4.40	0.68	0.84	0.68
Sp. Reading	3	8	8	249	1.23	1.33	-0.10	0.79	0.77	16.06	83.13	0.80	0.85	0.92	0.84
Sp. Reading	4	29	29	243	2.20	2.17	0.03	1.06	1.08	11.11	87.65	1.23	0.93	0.96	0.93
Sp. Writing	3	16	16	250	1.21	1.57	-0.36	0.57	0.59	36.80	62.80	0.40	0.62	0.74	0.52
Sp. Writing	3	16	16	250	0.82	0.94	-0.12	0.39	0.24	16.40	83.60	0.00	0.31	0.62	0.26
Sp. Writing	3	16	16	250	0.83	0.79	0.04	0.37	0.41	11.20	88.80	0.00	0.64	0.82	0.63
Sp. Writing	3	16	16	250	0.93	0.96	-0.03	0.25	0.21	6.40	93.60	0.00	0.41	0.70	0.40
Sp. Writing	4	25	25	238	1.62	2.03	-0.41	0.99	1.15	41.60	51.68	6.72	0.77	0.85	0.71

**Table 18. 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	55695	53819	52838	52020	52015	51946	54025	51605
Disability	5600	5999	5997	5663	5378	5190	5017	4287
No IEP	55699	53814	52839	52016	52013	51941	54009	51580
IEP	5591	5998	5989	5663	5376	5187	5019	4288
No Accommodation	50291	49348	48732	49869	51088	51279	55364	52924
Accommodation	10992	10439	10080	7783	6283	5835	3646	2910
Am. Indian/AK Nat.	698	688	656	681	706	629	769	665
Asian/Pac. Isl.	2295	2215	2187	2168	2055	2108	2000	1844
Black	3681	3668	3625	3308	3435	3393	3677	3448
Hispanic	18671	17831	17203	16321	15809	15237	15978	14045
White	35952	35415	35164	35204	35388	35769	36622	35906
Free Lunch Elig.	20618	19619	18699	17432	16741	15647	14933	12454
Reduced Lunch Elig.	5100	5106	4937	4658	4553	4556	4042	3594
Not FRL Elig.	35557	35068	35178	35564	36075	36909	40038	39809
Female	30003	29290	28957	28268	28084	27803	28789	27316
Male	31293	30526	29879	29414	29308	29329	30257	28582
Lang. Prof. NA	49584	48947	48395	47944	48245	48662	50522	48459
Lang. Prof. NEP	3516	2163	1420	1102	979	775	1010	848
Lang. Prof. LEP	6484	5666	5288	4286	3642	3055	2503	2291
Lang. Prof. FEP	1709	3042	3731	4351	4526	4643	5005	4296
Not Mig. or Immig.	60195	58922	57997	56861	56616	56338	58180	55083
Mig. or Immig.	1095	889	829	815	771	787	843	775

**Table 19. 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	54394	53600	52800	51959	52021	51909	53907	51432
Disability	5446	5951	5957	5640	5363	5175	5008	4250
No IEP	54390	53594	52801	51958	52019	51902	53890	51409
IEP	5444	5950	5952	5639	5363	5172	5010	4248
No Accommodation	49126	47637	47813	49078	51269	51640	55499	52990
Accommodation	10688	11888	10913	8453	6094	5426	3376	2686
Am. Indian/AK Nat.	694	689	655	679	703	627	762	665
Asian/Pac. Isl.	2287	2207	2181	2164	2057	2104	2004	1835
Black	3665	3653	3616	3307	3442	3386	3659	3415
Hispanic	17302	17634	17160	16295	15806	15229	15935	13998
White	35892	35368	35146	35155	35377	35738	36561	35784
Free Lunch Elig.	19425	19424	18654	17398	16727	15629	14878	12399
Reduced Lunch Elig.	5008	5087	4930	4656	4546	4555	4026	3571
Not FRL Elig.	35390	35018	35152	35516	36087	36876	39984	39680
Female	29245	29169	28938	28243	28091	27790	28733	27238
Male	30595	30379	29819	29355	29294	29293	30188	28459
Lang. Prof. NA	49504	48875	48347	47882	48254	48634	50431	48278
Lang. Prof. NEP	2641	2002	1393	1085	964	755	989	836
Lang. Prof. LEP	5992	5631	5286	4284	3634	3059	2495	2273
Lang. Prof. FEP	1703	3043	3730	4349	4530	4636	4998	4298
Not Mig. or Immig.	58830	58719	57936	56792	56612	56288	58073	54888
Mig. or Immig.	997	825	813	802	768	783	822	761

**Table 20. 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	54451	53593	52809	51728	52018	51915	53948	51498
Disability	5479	5954	5972	5649	5375	5182	4983	4279
No IEP	54453	53587	52810	51727	52016	51908	53931	51474
IEP	5472	5953	5967	5648	5375	5179	4985	4278
No Accommodation	49261	47493	47510	49162	50996	51410	55284	52918
Accommodation	10656	12007	11210	8143	6367	5662	3554	2823
Am. Indian/AK Nat.	696	686	656	680	701	627	764	666
Asian/Pac. Isl.	2295	2204	2180	2138	2056	2105	2004	1835
Black	3681	3657	3616	3304	3445	3396	3657	3425
Hispanic	17326	17618	17180	16238	15810	15229	15954	14038
White	35932	35382	35150	35018	35382	35740	36558	35828
Free Lunch Elig.	19439	19418	18678	17358	16733	15640	14884	12436
Reduced Lunch Elig.	5011	5089	4932	4629	4545	4558	4028	3569
Not FRL Elig.	35463	35018	35150	35361	36091	36875	39992	39740
Female	29279	29161	28940	28130	28097	27799	28741	27282
Male	30652	30383	29841	29246	29297	29297	30196	28510
Lang. Prof. NA	49579	48888	48356	47698	48254	48644	50435	48350
Lang. Prof. NEP	2654	1994	1399	1093	968	756	998	842
Lang. Prof. LEP	6001	5627	5293	4278	3638	3058	2488	2286
Lang. Prof. FEP	1695	3038	3732	4309	4531	4639	5008	4302
Not Mig. or Immig.	58928	58717	57958	56566	56623	56301	58079	54977
Mig. or Immig.	994	823	815	806	766	783	833	767



**Table 21. Tested Population Demographic Distribution – Science**

Subgroup	Grade		
	5	8	10
	N	N	N
No Disability	52829	51900	51555
Disability	5979	5180	4289
No IEP	52826	51896	51534
IEP	5972	5178	4285
No Accommodation	50014	52271	53041
Accommodation	8767	4781	2697
Am. Indian/AK Nat.	658	627	669
Asian/Pac. Isl.	2185	2106	1841
Black	3620	3380	3445
Hispanic	17183	15225	14015
White	35163	35743	35889
Free Lunch Elig.	18681	15624	12456
Reduced Lunch Elig.	4930	4554	3595
Not FRL Elig.	35175	36876	39765
Female	28946	27780	27303
Male	29862	29299	28553
Lang. Prof. NA	48375	48621	48424
Lang. Prof. NEP	1416	770	852
Lang. Prof. LEP	5286	3045	2284
Lang. Prof. FEP	3730	4644	4287
Not Mig. or Immig.	57972	56288	55039
Mig. or Immig.	824	783	772

**Table 22. 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	1262	162	1253	162
Disability	100	4	98	4
No IEP	1262	162	1253	162
IEP	100	4	98	4
No Accommodation	1088	109	1089	109
Accommodation	274	57	262	57
Am. Indian/AK Nat.	4	.	4	.
Asian/Pac. Isl.	.	.	.	.
Black	2	.	2	.
Hispanic	1339	163	1327	163
White	17	3	18	3
Free Lunch Elig.	1167	130	1160	130
Reduced Lunch Elig.	101	12	97	12
Not FRL Elig.	94	24	94	24
Female	727	87	721	87
Male	635	79	630	79
Lang. Prof. NA	6	3	10	3
Lang. Prof. NEP	859	144	849	144
Lang. Prof. LEP	487	19	482	19
Lang. Prof. FEP	10	.	10	.
Not Mig. or Immig.	1247	108	1241	108
Mig. or Immig.	115	58	110	58

**Table 23. 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	1	0.53	0.36	0.90	21	1	1	3	0.49	1.63	0.89
2	1	1	1	0.52	0.19	0.76	24	2	1	1	0.29	0.05	0.51
3	1	1	1	0.43	0.13	0.68	25	2	1	1	0.44	0.20	0.67
4	1	1	1	0.41	0.09	0.89	26	2	1	1	0.45	0.14	0.65
6	1	1	1	0.26	0.28	0.46	27	2	1	3	0.51	0.12	0.61
7	1	1	3	0.47	0.42	0.77	29	2	1	2	0.34	0.25	0.69
8	1	1	3	0.31	0.55	0.67	30	2	1	2	0.50	0.40	0.71
9	1	1	2	0.35	0.07	0.72	31	2	1	3	0.50	0.15	0.80
10	1	1	2	0.22	0.32	0.38	32	2	1	2	0.40	0.36	0.89
11	1	1	2	0.51	0.26	0.87	33	2	1	2	0.44	0.35	0.70
12	1	1	3	0.50	0.61	0.77	34	2	1	3	0.52	0.44	0.84
14	1	1	1	0.29	0.45	0.43	35	2	1	2	0.43	0.34	0.67
15	1	1	1	0.35	0.48	0.76	36	2	1	2	0.35	0.37	0.66
17	1	1	1	0.48	0.88	0.86	38	2	1	2	0.31	0.82	0.40
18	1	1	1	0.39	0.99	0.45	39	2	1	3	0.51	1.08	0.87
20	1	1	3	0.46	1.49	0.75	40	2	1	3	0.32	1.45	0.67

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

**Table 24. 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		
5	1	1	1	0.49	10.95	30.81	52.72	4.99		0.53	0.50
13	1	1	2	0.60	11.38	31.96	40.86	14.31		1.49	0.52
16	1	1	1	0.47	22.94	36.87	32.98	5.29		1.92	0.40
19	1	1	1	0.45	19.86	32.45	45.49			2.21	0.62
22	2	1	1	0.53	22.96	35.53	41.05			0.46	0.59
23	2	1	1	0.32	62.65	28.17	8.19			1.00	0.22
28	2	1	2	0.56	13.21	45.18	34.09	6.44		1.08	0.44
37	2	1	2	0.59	16.95	48.50	33.21			1.35	0.57

Mean Item-Total Corr.: 0.50 Mean p-Value: 0.48

**Table 25. 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	0.35	0.07	0.27	21	2	1	1	0.40	0.07	0.94
4	1	1	2	0.28	0.07	0.67	22	2	1	1	0.39	0.00	0.69
5	1	1	3	0.27	0.37	0.34	23	2	1	1	0.51	0.00	0.87
6	1	1	3	0.24	0.59	0.25	24	2	1	3	0.40	0.15	0.82
7	1	1	1	0.28	0.29	0.29	27	2	1	2	0.36	0.88	0.87
9	1	1	3	0.41	0.29	0.50	28	2	1	3	0.50	0.00	0.73
10	1	1	3	0.34	0.29	0.61	29	2	1	3	0.38	0.00	0.76
11	1	1	1	0.43	0.44	0.66	30	2	1	2	0.43	0.44	0.53
12	1	1	1	0.36	0.81	0.53	31	2	1	2	0.44	0.59	0.60
13	1	1	1	0.33	1.17	0.34	33	2	1	2	0.41	0.22	0.61
14	1	1	1	0.15	0.81	0.38	34	2	1	2	0.29	0.59	0.48
15	1	1	3	0.50	1.40	0.77	35	2	1	3	0.14	1.17	0.35
16	1	1	1	0.46	1.40	0.82	37	2	1	1	0.59	0.51	0.75
18	1	1	1	0.40	8.22	0.73	38	2	1	3	0.45	0.81	0.65
19	1	1	1	0.50	2.50	0.77	39	2	1	1	0.44	0.66	0.62
20	1	1	3	0.48	2.64	0.70	40	2	1	3	0.44	0.88	0.58

Mean Item-Total Corr.: 0.39 Mean p-Value: 0.61

**Table 26. 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	0.58	27.90	9.69	23.64	37.81		0.95	0.57
2	1	1	2	0.69	27.53	7.86	9.32	53.96		1.32	0.63
8	1	1	1	0.61	24.96	28.27	45.67			1.10	0.60
17	1	1	1	0.60	16.59	21.15	28.78	30.18		3.30	0.56
25	2	1	1	0.59	11.97	25.77	61.09			1.17	0.74
26	2	1	1	0.46	47.94	23.79	26.80			1.47	0.39
32	2	1	2	0.54	27.68	35.68	28.41	7.20		1.03	0.38
36	2	1	1	0.64	22.03	29.15	47.65			1.17	0.62

Mean Item-Total Corr.: 0.59 Mean p-Value: 0.56

**Table 27. 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		0.46	0.04	0.88	21	2	3	7	0.41	0.02	0.91
3	1	2		0.52	0.04	0.76	22	2	3	7	0.41	0.04	0.86
4	1	2		0.30	0.11	0.66	23	2	3	8	0.42	0.38	0.83
5	1	3	7	0.51	0.43	0.78	24	2	3	7	0.49	0.83	0.81
6	1	3	7	0.49	0.23	0.84	25	2	2	5	0.45	0.05	0.87
7	1	3	7	0.42	0.45	0.86	26	2	2	5	0.43	0.18	0.76
8	1	3	7	0.53	0.04	0.90	27	2	2	5	0.32	0.18	0.56
9	1	3	7	0.48	0.18	0.85	29	2	3	8	0.51	0.10	0.83
10	1	3	7	0.43	0.80	0.55	30	2	3	8	0.40	0.39	0.93
11	1	2		0.35	0.17	0.80	31	2	3	8	0.47	0.27	0.86
12	1	2		0.43	1.13	0.82	32	2	3	8	0.46	0.29	0.90
13	1	3	7	0.38	0.74	0.41	33	2	3	8	0.43	0.50	0.92
15	1	2		0.50	0.21	0.66	34	2	3	8	0.43	0.13	0.64
16	1	2		0.41	0.25	0.92	35	2	3	8	0.61	0.31	0.79
17	1	2	5	0.46	0.25	0.67	36	2	3	8	0.54	0.59	0.80
18	1	2	5	0.44	0.27	0.75	37	2	3	8	0.57	0.33	0.83
19	1	3	7	0.42	0.44	0.76	38	2	3	8	0.59	0.63	0.84
20	1	3	7	0.47	0.62	0.81							

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.79

**Table 28. 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	0.47	15.34	84.59				0.07	0.85
1	B	1	3	7	0.62	23.04	76.89				0.07	0.77
1	C	1	3	7	0.54	20.72	79.21				0.07	0.79
1	D	1	3	8	0.51	31.40	68.53				0.07	0.69
1	E	1	3	8	0.45	25.58	74.36				0.07	0.74
1	F	1	3	7	0.57	25.38	74.56				0.07	0.75
14	A	1	2	5	0.40	3.02	82.19	14.31			0.48	0.55
14	B	1	2	5	0.37	3.31	96.22				0.48	0.96
14	C	1	2	5	0.54	17.07	82.45				0.48	0.82
14	D	1	3	5	0.45	6.48	93.05				0.48	0.93
28	A	2	2	5	0.39	2.05	81.79	15.84			0.32	0.57
28	B	2	2	5	0.32	2.34	97.34				0.32	0.97
28	C	2	2	5	0.57	23.48	76.21				0.32	0.76
28	D	2	3	5	0.45	7.23	92.46				0.32	0.92
39	A	2	2	5	0.38	2.98	89.63	6.92			0.47	0.52
39	B	2	2	5	0.37	4.05	95.47				0.48	0.95
39	C	2	2	5	0.55	32.21	67.30				0.48	0.67
39	D	2	3	5	0.49	10.99	88.53				0.48	0.89

Mean Item-Total Corr.: 0.47 Mean p-Value: 0.78

**Table 29. 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	0.35	0.22	0.87	21	2	3	8	0.35	0.07	0.77
2	1	3	7	0.45	0.22	0.86	22	2	3	8	0.49	0.00	0.60
3	1	3	7	0.48	0.52	0.89	23	2	3	8	0.45	0.07	0.75
5	1	3	7	0.41	0.00	0.64	24	2	3	8	0.39	0.00	0.72
6	1	3	7	0.39	0.15	0.82	25	2	3	8	0.49	0.07	0.80
7	1	3	7	0.39	0.37	0.73	26	2	3	8	0.41	0.22	0.43
8	1	3	7	0.41	1.04	0.57	28	2	3	7	0.41	0.07	0.71
9	1	3	7	0.43	1.26	0.55	29	2	3	7	0.45	0.00	0.88
10	1	3	7	0.33	0.00	0.95	30	2	3	7	0.41	0.37	0.86
11	1	3	7	0.43	0.07	0.86	31	2	3	7	0.53	0.22	0.77
12	1	3	7	0.42	0.22	0.93	32	2	3	7	0.45	0.30	0.60
13	1	2		0.43	0.44	0.75	33	2	2		0.42	0.81	0.68
14	1	2		0.40	0.30	0.82	34	2	2		0.41	0.15	0.92
15	1	2	7	0.48	0.22	0.80	35	2	2		0.47	0.22	0.91
17	1	2		0.50	0.96	0.78	36	2	2		0.49	0.74	0.71
18	1	2		0.16	0.74	0.25	37	2	2		0.35	0.30	0.52
19	1	2		0.24	0.96	0.29	38	2	2		0.35	0.37	0.77
20	2	3	8	0.46	0.00	0.70							

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.73

**Table 30. 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	0.42	19.84	79.64				0.52	0.80
4	B	1	3	7	0.38	74.76	24.72				0.52	0.25
4	C	1	3	8	0.50	32.79	66.69				0.52	0.67
4	D	1	3	8	0.50	35.38	64.10				0.52	0.64
4	E	1	3	7	0.49	44.78	54.70				0.52	0.55
4	F	1	3	7	0.39	20.43	79.05				0.52	0.79
16	A	1	2	5	0.51	5.55	40.04	53.66			0.74	0.74
16	B	1	2	5	0.44	7.85	91.49				0.67	0.91
16	C	1	2	5	0.52	22.35	76.98				0.67	0.77
16	D	1	3	5	0.42	4.44	94.89				0.67	0.95
27	A	2	2	5	0.53	22.80	48.41	28.57			0.22	0.53
27	B	2	2	5	0.44	10.07	89.71				0.22	0.90
27	C	2	2	5	0.53	26.94	72.83				0.22	0.73
27	D	2	3	5	0.45	5.33	94.45				0.22	0.94
39	A	2	2	5	0.46	24.72	35.31	39.60			0.37	0.57
39	B	2	2	5	0.43	12.95	86.68				0.37	0.87
39	C	2	2	5	0.49	31.61	68.10				0.30	0.68
39	D	2	3	5	0.41	4.15	95.56				0.30	0.96

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.74

**Table 31. 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		0.37	8.76	0.84	21	2	4		0.38	0.40	0.83
2	1	1		0.36	0.14	0.74	22	2	6		0.30	0.20	0.37
3	1	1		0.46	0.31	0.67	23	2	6		0.46	5.61	0.67
4	1	2		0.46	0.11	0.85	24	2	4		0.38	0.27	0.69
6	1	2		0.27	0.18	0.88	25	2	1		0.50	0.22	0.58
7	1	1		0.19	0.18	0.97	26	2	6		0.44	1.07	0.77
8	1	4		0.42	0.32	0.68	27	2	4		0.55	0.12	0.52
10	1	4		0.34	0.37	0.89	28	2	2		0.28	0.29	0.94
11	1	6		0.50	1.73	0.64	29	2	4		0.26	0.83	0.95
12	1	4		0.47	0.33	0.77	30	2	6		0.39	1.44	0.92
14	1	4		0.22	0.35	0.97	32	2	1		0.45	0.38	0.86
15	1	1		0.41	0.24	0.85	33	2	4		0.38	0.24	0.87
16	1	2		0.49	0.21	0.52	35	2	2		0.39	0.14	0.91
17	1	2		0.55	0.22	0.60	36	2	2		0.58	0.35	0.69
18	1	2		0.53	0.35	0.73	37*	2	2		0.54	0.23	0.81
19	1	4		0.29	0.67	0.70	39	2	4		0.48	0.43	0.78

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

\*Item removed from calibration.

**Table 32. 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		
5		1	1		0.59	51.91	11.48	36.44			0.18	0.42
9		1	2		0.64	38.37	12.84	48.49			0.30	0.55
13		1	1		0.64	29.12	28.97	41.60			0.31	0.56
20		1	4		0.54	26.35	34.62	24.90	13.79		0.34	0.42
31		2	2		0.64	26.47	16.89	56.23			0.42	0.65
34		2	6		0.64	24.49	36.97	38.25			0.30	0.57
38		2	4		0.51	7.90	30.06	61.70			0.34	0.77
40		2	6		0.65	2.28	25.49	35.99	36.17		0.07	0.69

Mean Item-Total Corr.: 0.61 Mean p-Value: 0.58

**Table 33. 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	6	1	0.30	1.78	0.93	38	4	6	1	0.40	0.60	0.86
6	3	6	3	0.50	0.14	0.51	39	4	4	1	0.23	0.45	0.27
7	3	6	1	0.48	0.24	0.71	41	4	4	2	0.54	0.23	0.71
8	3	1	3	0.25	0.31	0.92	42	4	4	2	0.46	0.51	0.75
9	3	1	3	0.38	0.09	0.58	43	4	4	2	0.39	0.93	0.45
10	3	5		0.38	0.13	0.82	44	4	4	2	0.35	0.55	0.76
11	3	4	2	0.34	0.11	0.66	46	4	5		0.32	0.44	0.70
12	3	5		0.52	0.13	0.59	47	4	5		0.43	0.49	0.85
13	3	1	3	0.50	0.22	0.85	49	4	1	1	0.36	1.27	0.40
14	3	5		0.36	0.06	0.88	50	4	1	3	0.47	1.60	0.65
15	3	5		0.36	0.19	0.55	94	6	4	1	0.45	0.57	0.83
16	3	1	1	0.47	0.76	0.63	97	6	1	1	0.34	0.11	0.79
19	3	6	1	0.42	0.28	0.77	98	6	6	1	0.32	0.32	0.70
20	3	5		0.45	0.30	0.63	99	6	1	3	0.37	0.24	0.78
21	3	1	2	0.44	0.65	0.78	100	6	6	1	0.34	0.18	0.93
22	3	1	2	0.31	0.70	0.68	101	6	5		0.43	0.58	0.54
24	3	1	2	0.45	0.72	0.54	102	6	5		0.51	0.83	0.79
25	3	1	3	0.46	0.88	0.91	103	6	5		0.14	0.24	0.45
26	3	1	3	0.41	1.00	0.84	104	6	1	2	0.42	0.16	0.68
27	3	5		0.44	1.42	0.63	105	6	4	2	0.47	0.24	0.64
28	3	5		0.53	1.53	0.64	106	6	1	3	0.50	0.20	0.82
31	4	1	1	0.30	0.15	0.57	108	6	5		0.38	0.30	0.45
32	4	1	1	0.43	0.28	0.77	110	6	1	2	0.57	0.45	0.83
33	4	1	1	0.47	0.32	0.78	112	6	1	2	0.52	0.58	0.75
34	4	1	3	0.51	0.27	0.75	113	6	1	2	0.55	0.69	0.82
35	4	4	1	0.28	0.10	0.46	114	6	5		0.49	0.94	0.75
36	4	4	1	0.42	0.26	0.71	115	6	5		0.15	0.98	0.24
37	4	6	1	0.51	0.30	0.68	116	6	5		0.48	1.02	0.63

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



**Table 34. 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		
5		3	4	1	0.61	21.05	30.97	47.56			0.41	0.63
17		3	6	1	0.49	18.64	36.61	34.79	9.09		0.86	0.44
18		3	6	1	0.51	38.02	25.22	18.81	16.39		1.55	0.37
23		3	1	2	0.48	35.38	46.10	16.99			1.54	0.40
29		4	1	1	0.44	15.67	30.17	53.76			0.40	0.69
30		4	1	1	0.32	49.37	40.56	9.00			1.06	0.29
40		4	1	1	0.54	16.08	39.15	37.54	5.46		1.77	0.44
45		4	5		0.44	59.35	31.31	6.28			3.06	0.22
48		4	4	1	0.61	11.47	15.89	33.51	14.65	23.27	1.21	0.55
95		6	6	1	0.65	10.55	21.13	67.84			0.48	0.78
96		6	6	1	0.53	11.38	50.71	36.89			1.03	0.62
107		6	1	2	0.55	31.79	12.39	35.66	18.98		1.17	0.47
109		6	1	2	0.58	21.75	34.14	32.31	10.17		1.63	0.43
111		6	4	2	0.59	36.81	45.60	15.94			1.65	0.39

Mean Item-Total Corr.: 0.52    Mean p-Value: 0.48

**Table 35. 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	0.45	1.81	0.45	39	4	5		0.30	3.01	0.70
5	3	5		0.33	0.60	0.55	40	4	1	1	0.42	0.60	0.70
6	3	6	2	0.26	0.00	0.66	41	4	1	1	0.54	0.60	0.54
7	3	5		0.40	0.00	0.30	43	4	1	1	0.41	3.01	0.31
8	3	6	2	0.19	0.00	0.30	46	4	1	3	0.46	6.63	0.68
9	3	4	2	0.38	0.00	0.58	47	4	6	3	0.19	7.23	0.34
10	3	4	2	0.48	0.00	0.55	48	4	5		0.20	7.23	0.28
11	3	1	3	0.10	0.00	0.56	91	6	1	2	0.41	0.00	0.83
12	3	6	2	0.12	0.00	0.40	92	6	1	3	0.42	0.00	0.61
15	3	4	1	0.35	0.00	0.64	93	6	1	3	0.46	0.00	0.49
16	3	1	1	0.52	0.00	0.64	94	6	1	2	0.31	0.60	0.77
17	3	4	1	0.36	0.00	0.77	95	6	1	2	0.40	0.60	0.79
18	3	1	1	0.38	0.00	0.69	96	6	1	2	0.23	1.20	0.62
19	3	6	1	0.14	0.00	0.96	99	6	6	1	0.30	1.20	0.45
20	3	1	1	0.05	0.00	0.59	101	6	4	1	0.50	1.20	0.45
21	3	1	1	0.46	0.00	0.52	102	6	4	1	0.37	1.20	0.35
22	3	1	1	0.54	0.00	0.55	103	6	1	3	0.48	1.20	0.77
23	3	6	1	0.25	0.00	0.54	104	6	1	3	0.36	3.01	0.64
24	3	6	1	0.37	0.00	0.69	105	6	5		0.45	3.01	0.56
26	4	1	2	0.29	0.60	0.44	106	6	5		0.36	1.81	0.35
27	4	1	3	0.41	0.00	0.74	107	6	5		0.47	1.81	0.45
28	4	4	2	0.37	0.00	0.67	109	6	1	2	0.40	1.81	0.64
30	4	4	2	0.28	1.81	0.34	110	6	1	2	0.47	1.81	0.54
32	4	4	2	0.31	0.60	0.43	111	6	4	2	0.56	1.20	0.67
35	4	4	1	0.50	1.20	0.67	112	6	1	3	0.36	1.20	0.52
36	4	1	1	0.52	0.00	0.51	113	6	1	3	0.42	2.41	0.66
37	4	1	3	0.37	1.20	0.71	114	6	5		0.44	2.41	0.69
38	4	5		0.34	2.41	0.41	115	6	5		0.34	1.20	0.48

Mean Item-Total Corr.: 0.37 Mean p-Value: 0.57

**Table 36. 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	0.56	24.70	20.48	36.75	14.46		3.61	0.46
14		3	5		0.39	51.81	43.98	1.20			3.01	0.23
29		4	5		0.66	16.87	10.84	11.45	60.24		0.60	0.71
31		4	4	2	0.53	69.28	16.27	10.84			3.61	0.19
33		4	6	1	0.67	39.16	27.71	20.48	11.45		1.20	0.34
34		4	1	1	0.68	30.12	19.28	22.29	26.51		1.81	0.48
42		4	1	1	0.50	56.02	24.70	13.86			5.42	0.26
44		4	6	1	0.57	30.72	29.52	31.33			8.43	0.46
45		4	4	1	0.46	39.16	23.49	17.47	8.43		11.5	0.28
97		6	4	1	0.25	26.51	54.82	15.06			3.61	0.42
98		6	6	1	0.51	32.53	33.13	18.07	13.25		3.01	0.36
100		6	6	1	0.61	52.41	29.52	15.06			3.01	0.30
108		6	1	2	0.63	24.10	25.30	46.99			3.61	0.60
116		6	5		0.53	24.10	7.83	48.19	18.07		1.81	0.53

Mean Item-Total Corr.: 0.54    Mean p-Value: 0.40

**Table 37. 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	0.58	0.83	73	5	2		0.44	0.37	0.94
53	5	3	7	0.44	0.07	0.89	74	5	2		0.37	0.33	0.52
54	5	3	7	0.41	0.20	0.90	75	5	3	7	0.45	4.23	0.60
55	5	2		0.39	0.63	0.90	76	5	3	7	0.51	0.32	0.78
56	5	2		0.48	0.74	0.85	77	5	3	7	0.52	0.57	0.84
57	5	2		0.38	1.13	0.76	78	5	3	7	0.54	1.35	0.83
58	5	3	7	0.37	0.09	0.50	79	5	3	7	0.48	0.69	0.86
59	5	3	7	0.31	0.60	0.90	80	5	2		0.42	1.06	0.86
60	5	3	7	0.36	1.08	0.87	81	5	3	7	0.49	0.40	0.82
61	5	3	8	0.38	0.17	0.74	82	5	3	7	0.50	0.57	0.83
62	5	3	8	0.40	0.41	0.68	83	5	3	7	0.56	0.63	0.80
63	5	3	8	0.54	0.83	0.83	84	5	3	8	0.49	0.73	0.89
65	5	2	5	0.44	0.21	0.81	85	5	3	8	0.51	0.45	0.86
66	5	3	7	0.38	0.31	0.65	86	5	2	5	0.48	0.80	0.68
67	5	2	5	0.37	0.39	0.56	87	5	3	7	0.48	0.70	0.68
68	5	2		0.50	0.33	0.78	88	5	3	7	0.23	1.02	0.62
69	5	2	5	0.41	0.20	0.79	89	5	3	8	0.56	0.58	0.85
70	5	2	5	0.52	0.20	0.82	90	5	3	8	0.47	0.95	0.58
71	5	2	5	0.34	0.32	0.78	91	5	2		0.47	0.72	0.83
72	5	2	5	0.50	0.26	0.72	92	5	3	8	0.46	0.77	0.77

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

**Table 38. 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	0.12	2.20	97.80				0.00	0.98
2	A	2	3	7	0.37	20.97	78.82				0.21	0.79
2	B	2	3	8	0.47	19.29	80.50				0.21	0.80
2	C	2	3	7	0.32	46.17	53.60				0.23	0.54
2	D	2	3	8	0.39	34.24	65.54				0.22	0.66
2	E	2	3	8	0.46	56.60	43.16				0.23	0.43
2	F	2	3	7	0.27	6.85	92.90				0.24	0.93
3	A	2	2	6	0.59	1.87	5.93	39.38	38.05	14.61	0.16	0.64
3	B	2	2	6	0.60	0.16	6.70	40.90	37.56	14.51	0.16	0.65
3	C	2	3	6	0.51	0.28	10.40	89.16			0.16	0.94
51		5	2	5	0.53	1.31	6.84	38.10	42.82	7.44	3.48	0.60
64		5	2	5	0.59	0.52	6.52	44.09	44.15	3.81	0.91	0.61
93		5	2	5	0.61	0.65	13.46	54.04	27.00	2.61	2.24	0.53

Mean Item-Total Corr.: 0.45 Mean p-Value: 0.70

**Table 39. 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	0.29	0.00	0.85	70	5	3	7	0.40	0.60	0.40
50	5	3	7	0.43	0.60	0.75	71	5	3	7	0.34	2.41	0.52
51	5	2		0.37	0.00	0.82	72	5	3	8	0.20	0.00	0.45
52	5	2		0.22	0.00	0.41	73	5	3	8	0.16	0.60	0.41
53	5	2		0.19	0.00	0.93	74	5	3	8	0.44	1.20	0.61
54	5	3	7	0.33	0.00	0.60	75	5	3	8	0.30	1.20	0.39
55	5	2		0.40	0.00	0.79	76	5	3	7	0.43	0.60	0.35
56	5	3	7	0.38	0.60	0.87	77	5	3	7	0.18	0.60	0.41
57	5	2	5	0.29	0.00	0.45	78	5	3	7	0.32	2.41	0.27
58	5	2	5	0.45	0.00	0.49	79	5	3	8	0.28	0.60	0.55
59	5	2	5	0.33	0.00	0.34	80	5	3	8	0.41	0.60	0.40
60	5	2	5	0.39	0.00	0.49	81	5	3	8	0.36	0.60	0.40
61	5	2	5	0.40	0.00	0.44	82	5	3	8	0.21	1.20	0.43
62	5	2	5	0.22	0.00	0.39	83	5	3	8	0.27	1.81	0.47
64	5	3	7	0.35	0.00	0.42	84	5	3	8	0.43	2.41	0.43
65	5	3	7	0.50	0.60	0.68	85	5	3	8	0.38	2.41	0.48
66	5	3	7	0.41	0.60	0.48	86	5	3	8	0.19	1.81	0.36
67	5	3	7	0.32	0.60	0.63	87	5	2		0.40	1.81	0.34
68	5	3	7	0.46	1.81	0.63	88	5	2		0.42	1.81	0.63
69	5	3	7	0.54	2.41	0.47	89	5	2		0.31	1.81	0.37

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

**Table 40. 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	4.22	95.78				0.00	0.96
2	A	2	3	7	0.45	12.65	85.54				1.81	0.86
2	B	2	3	7	0.52	37.95	60.24				1.81	0.60
2	C	2	3	7	0.38	30.72	67.47				1.81	0.67
2	D	2	3	8	0.11	14.46	83.73				1.81	0.84
2	E	2	3	7	0.50	27.71	70.48				1.81	0.70
2	F	2	3	8	0.36	81.33	16.87				1.81	0.17
3	A	2	2	6	0.52	25.30	12.65	28.31	26.51	4.82	2.41	0.42
3	B	2	2	6	0.57	3.61	28.31	34.94	27.71	3.01	2.41	0.48
3	C	2	3	6	0.49	6.02	22.29	69.28			2.41	0.80
25		5	2	5	0.54	16.87	26.51	26.51	18.07	6.63	5.42	0.40
63		5	2	5	0.52	3.61	15.66	31.33	34.94	13.86	0.60	0.60
90		5	2	5	0.43	11.45	15.66	22.29	28.31	15.66	6.63	0.52

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.62

**Table 41. 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	0.31	5.06	0.90	35	2	4		0.32	0.29	0.70
2	1	6		0.45	0.38	0.69	37	2	2	2	0.52	0.36	0.55
3	1	1	1	0.47	0.18	0.64	39	2	1	1	0.40	0.28	0.76
4	1	2		0.49	0.18	0.87	40	2	4		0.41	0.12	0.90
6	1	4		0.34	0.60	0.64	41	2	6		0.48	0.65	0.68
8	1	2	2	0.51	0.12	0.44	42	2	1		0.34	5.43	0.87
9	1	6		0.35	0.50	0.88	43	2	3		0.53	0.17	0.80
11	1	3		0.34	0.28	0.56	44	2	1		0.45	0.93	0.56
12	1	4	3	0.31	0.16	0.92	45	2	6		0.35	0.91	0.82
13	1	4	3	0.21	0.49	0.70	47	3	4	3	0.54	0.07	0.59
15	1	4		0.45	0.51	0.58	48	3	6		0.55	0.17	0.76
16	1	4	3	0.47	0.14	0.61	49	3	4		0.18	0.05	0.95
17	1	6		0.47	0.72	0.78	51	3	6		0.46	1.13	0.75
18	1	3		0.35	0.21	0.72	52	3	3		0.45	0.29	0.51
19	1	2	2	0.27	0.32	0.95	53	3	6	1	0.50	0.30	0.79
20	1	3		0.53	0.20	0.69	54	3	1	1	0.28	0.18	0.97
21	1	1		0.43	0.19	0.63	55	3	2		0.48	0.59	0.55
22	1	1		0.46	0.37	0.87	57	3	4		0.44	0.44	0.59
24	2	4	3	0.54	0.04	0.67	58	3	3		0.46	0.93	0.49
25	2	1	1	0.36	0.22	0.91	60	3	4		0.48	0.23	0.72
26	2	4	3	0.39	0.16	0.47	61	3	6		0.43	0.41	0.86
27	2	4		0.40	0.12	0.57	62	3	6	1	0.56	0.30	0.85
29	2	4	3	0.27	0.21	0.85	64	3	3		0.50	0.33	0.69
30	2	3		0.34	0.11	0.95	65	3	4		0.37	0.34	0.87
32	2	2		0.55	0.70	0.74	66	3	2	2	0.39	0.22	0.93
33	2	6		0.30	4.18	0.84	67	3	6		0.54	0.99	0.73
34	2	3		0.42	0.28	0.53	68	3	1	1	0.53	0.49	0.70

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.73

**Table 42. 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		
5		1	6		0.62	9.22	29.13	61.56			0.10	0.76
7		1	3		0.57	5.14	16.26	33.77	44.71		0.12	0.73
10		1	3		0.53	36.79	25.84	37.13			0.24	0.50
14		1	1	1	0.50	1.46	7.40	16.60	74.44		0.10	0.88
23		1	1	1	0.54	6.17	4.24	11.80	56.10	21.45	0.23	0.70
28		2	2	2	0.43	9.91	31.51	58.46			0.12	0.74
31		2	4	3	0.53	5.18	10.25	10.37	74.15		0.06	0.84
36		2	1	1	0.71	26.35	14.09	36.22	22.93		0.41	0.52
38		2	2	2	0.67	41.74	17.04	40.63			0.59	0.49
46*		2	2	2	0.65	3.74	10.94	28.39	28.26	28.55	0.10	0.67
50		3	4		0.37	13.20	71.90	14.77			0.13	0.51
56		3	6	1	0.63	13.47	21.08	30.58	34.04		0.82	0.61
59		3	2	2	0.59	14.12	12.75	72.90			0.23	0.79
63		3	4		0.63	23.07	24.28	22.24	30.32		0.10	0.53
69		3	4		0.65	13.54	6.78	17.74	11.59	50.11	0.24	0.69

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

\*Item removed from calibration.

**Table 43. 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	1	2	0.40	0.09	0.55	41	4	1	3	0.42	1.10	0.76
5*	3	1	2	0.19	0.10	0.54	42	4	4	2	0.32	1.85	0.72
6	3	1	3	0.44	0.08	0.88	43	4	4	2	0.51	2.10	0.77
7	3	4	2	0.47	0.19	0.60	44	4	5	2	0.54	1.48	0.56
9	3	5	2	0.35	0.54	0.60	45	4	5	2	0.26	1.62	0.43
10	3	5	2	0.27	0.14	0.54	46	4	1	3	0.27	2.29	0.53
11	3	5	2	0.19	0.09	0.55	47	4	1	3	0.28	2.55	0.52
12	3	6	1	0.49	0.21	0.80	48	4	4	1	0.38	2.68	0.57
13	3	4	1	0.32	0.22	0.67	49	4	5	1	0.35	2.81	0.56
15	3	1	3	0.46	0.44	0.91	93	6	1	2	0.54	0.13	0.77
16	3	4	1	0.43	0.17	0.52	94	6	1	3	0.40	0.15	0.90
19	3	1	1	0.56	0.49	0.72	95	6	4	2	0.42	0.31	0.64
20	3	4	1	0.23	0.63	0.49	96	6	4	2	0.52	0.21	0.79
21	3	1	3	0.33	0.66	0.42	97	6	5	2	0.39	0.49	0.82
22	3	4	1	0.50	1.07	0.74	100	6	5	2	0.38	0.29	0.66
23	3	5	3	0.41	0.83	0.62	101	6	1	3	0.30	1.43	0.58
24	3	5	2	0.50	0.95	0.70	102	6	1	2	0.49	0.34	0.67
27	4	1	2	0.41	0.59	0.73	103	6	4	1	0.44	0.71	0.85
29	4	1	3	0.42	0.08	0.54	106	6	4	1	0.44	0.15	0.75
30	4	4	2	0.34	0.21	0.60	107	6	1	3	0.36	0.34	0.84
31	4	4	2	0.43	0.51	0.80	108	6	6	1	0.35	1.00	0.92
32	4	4	1	0.33	0.06	0.56	109	6	5		0.45	0.42	0.61
33	4	4	1	0.41	0.25	0.75	110	6	5		0.49	0.66	0.85
34	4	6	1	0.48	0.28	0.73	111	6	1	1	0.36	0.16	0.92
35	4	6	1	0.36	0.36	0.91	112	6	6	1	0.47	0.20	0.74
36	4	4	1	0.30	0.41	0.35	113	6	5		0.45	0.21	0.76
38	4	1	2	0.36	3.84	0.73	114	6	5		0.51	0.60	0.84
40	4	4	2	0.56	1.00	0.81	115	6	5		0.48	0.74	0.78

Mean Item-Total Corr.: 0.40 Mean p-Value: 0.69

\*Item removed from calibration.



**Table 44. 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	6	2	0.63	23.11	37.76	32.81	4.20		2.11	0.39
14		3	6	1	0.46	10.52	37.58	38.80	12.48		0.61	0.51
17		3	4	1	0.41	25.67	67.65	5.26			1.42	0.39
18		3	1	1	0.67	17.14	10.18	13.26	58.23		1.20	0.70
25		4	1	2	0.60	25.58	31.59	42.40			0.43	0.58
26		4	5		0.61	41.36	15.94	41.58			1.12	0.50
28		4	5	2	0.48	33.03	7.71	25.22	32.81		1.24	0.52
37		4	1	1	0.51	13.69	41.38	35.36	8.01		1.57	0.45
39		4	6	2	0.61	33.37	39.03	19.52	5.61		2.47	0.32
50		4	6	1	0.48	10.14	39.12	47.14			3.61	0.67
98		6	1	2	0.59	29.62	21.89	47.82			0.68	0.59
99		6	1	2	0.62	24.57	34.09	29.67	10.76		0.90	0.42
104		6	6	1	0.61	6.83	14.63	77.96			0.58	0.85
105		6	6	1	0.54	8.45	41.62	48.83			1.10	0.70

Mean Item-Total Corr.: 0.56    Mean p-Value: 0.54

**Table 45. 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
51	5	3	7	0.17	0.07	0.50	72	5	2	5	0.31	0.35	0.50
52	5	3	7	0.41	0.09	0.87	73	5	2	5	0.45	0.36	0.75
53	5	2	7	0.44	0.29	0.87	74	5	2	5	0.39	0.34	0.58
54*	5	2	7	0.38	1.52	0.70	75	5	3	8	0.23	0.49	0.54
55	5	3	8	0.42	1.76	0.73	76	5	3	8	0.41	0.88	0.80
56	5	3	8	0.45	0.10	0.91	77	5	3	8	0.55	0.30	0.82
57	5	2	7	0.40	0.24	0.85	78	5	3	8	0.43	0.45	0.70
58	5	2	7	0.45	0.46	0.67	79	5	3	8	0.47	0.46	0.88
59	5	3	7	0.43	0.14	0.86	80	5	3	8	0.51	0.40	0.81
60	5	3	7	0.26	0.24	0.53	81	5	3	8	0.43	0.62	0.68
61	5	3	7	0.32	0.75	0.69	82	5	2	5	0.50	0.80	0.77
62	5	3	7	0.37	1.71	0.92	83	5	3	7	0.45	0.49	0.81
63	5	3	7	0.46	1.84	0.81	84	5	2	7	0.50	0.59	0.61
64	5	3	8	0.44	0.17	0.66	85	5	2	7	0.28	0.71	0.43
65	5	3	7	0.44	0.28	0.69	86	5	2	5	0.46	0.58	0.79
66	5	3	7	0.44	0.79	0.77	87	5	3	7	0.37	0.76	0.73
67	5	3	8	0.34	0.55	0.72	88	5	2	5	0.41	0.80	0.59
68	5	3	8	0.43	1.92	0.85	89	5	3	8	0.44	0.70	0.76
70	5	2	5	0.41	0.17	0.53	90	5	3	7	0.35	0.99	0.61
71	5	2	5	0.45	0.24	0.68	91	5	2	5	0.42	1.01	0.61

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

\*Item removed from calibration.

**Table 46. 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	0.10	1.17	98.83				0.00	0.99
2	A	2	3	7	0.33	53.09	46.76				0.15	0.47
2	B	2	3	8	0.48	61.57	38.27				0.16	0.38
2	C	2	3	8	0.36	33.42	66.43				0.15	0.66
2	D	2	3	8	0.35	39.70	60.14				0.16	0.60
2	E	2	3	8	0.50	35.29	64.55				0.16	0.65
2	F	2	3	8	0.41	62.95	36.89				0.16	0.37
3	A	2	2	6	0.53	14.21	2.89	20.18	46.04	16.51	0.16	0.62
3	B	2	2	6	0.65	0.07	4.48	25.01	52.07	18.21	0.16	0.71
3	C	2	3	6	0.46	0.10	7.82	91.92			0.16	0.96
69		5	2	5	0.52	0.45	3.12	31.52	51.59	12.45	0.88	0.68
92		5	2	5	0.56	0.43	6.84	48.06	36.87	5.23	2.59	0.59
116		5	2	5	0.56	0.55	4.03	41.38	45.04	8.14	0.86	0.64

Mean Item-Total Corr.: 0.45 Mean p-Value: 0.64

**Table 47. 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	0.27	0.30	0.86	35	2	4		0.43	0.40	0.20
2	1	1	1	0.37	0.14	0.41	36	2	6	1	0.49	0.22	0.68
4	1	1		0.30	0.22	0.95	38	2	4		0.18	0.30	0.29
5	1	4		0.44	0.05	0.79	39	2	4		0.51	0.28	0.72
6	1	1	1	0.51	0.11	0.83	40	2	6		0.40	0.20	0.64
7	1	3		0.46	0.14	0.54	41	2	2	2	0.52	0.52	0.56
8	1	1	1	0.50	0.06	0.55	42	2	4		0.36	0.77	0.62
10	1	2	2	0.47	0.19	0.81	43	2	6		0.49	1.70	0.81
12	1	3	3	0.39	0.10	0.88	45	2	2	2	0.57	0.21	0.60
13	1	6		0.34	0.16	0.88	47	3	4		0.29	0.05	0.85
14	1	6		0.44	0.42	0.83	48	3	6		0.19	0.17	0.23
16	1	3		0.43	0.26	0.36	49	3	1	1	0.27	0.02	0.97
17	1	3	3	0.45	0.25	0.77	50	3	4		0.56	0.11	0.66
18	1	1	1	0.36	0.37	0.46	51	3	1	1	0.51	0.21	0.77
19	1	2		0.51	0.48	0.64	53	3	4		0.36	0.11	0.73
20	1	6		0.43	0.78	0.81	55	3	4		0.39	0.29	0.33
21	1	2		0.11	0.90	0.47	56	3	1		0.42	0.35	0.67
22	1	6		0.46	0.34	0.92	58	3	4		0.49	0.39	0.63
24	2	2	2	0.33	0.03	0.90	59	3	3		0.32	0.66	0.49
25	2	1	1	0.40	0.14	0.50	61	3	1	1	0.29	0.10	0.25
26	2	1	1	0.51	0.20	0.71	62	3	1		0.35	0.26	0.79
27	2	1	1	0.40	0.11	0.81	63	3	6		0.30	0.45	0.89
28	2	6		0.58	0.29	0.74	64	3	6		0.46	1.25	0.69
30	2	6		0.32	0.38	0.87	65	3	2		0.38	0.16	0.70
31	2	6		0.60	5.83	0.53	66	3	2	2	0.56	0.14	0.56
32	2	4		0.23	0.06	0.79	67	3	3		0.50	0.13	0.67
33	2	3	3	0.35	0.07	0.92	68	3	4		0.43	0.27	0.50

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.67

**Table 48. 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		0.54	25.92	25.42	48.37			0.29	0.61
9		1	3	3	0.68	1.70	41.14	27.76	29.29		0.11	0.62
11*		1	3	3	0.37	7.05	9.54	83.29			0.12	0.88
15		1	1		0.66	18.59	25.94	25.78	29.52		0.16	0.55
23		1	2	2	0.73	15.96	15.30	22.58	20.13	25.52	0.51	0.56
29		2	2	2	0.67	23.10	16.17	60.40			0.32	0.68
34		2	4		0.59	19.09	27.85	21.36	31.55		0.15	0.55
37		2	1		0.66	47.52	14.46	37.47			0.54	0.45
44		2	2	2	0.59	12.30	10.67	24.53	52.30		0.20	0.72
46		2	4		0.66	25.12	17.91	10.17	24.12	22.54	0.13	0.50
52		3	2	2	0.52	24.64	43.71	31.52			0.14	0.53
54		3	6	1	0.59	6.35	14.51	29.95	48.83		0.36	0.74
57		3	3		0.62	9.00	22.60	36.08	31.91		0.41	0.63
60		3	6		0.61	20.38	55.59	23.75			0.28	0.52
69		3	3	3	0.66	4.77	18.36	21.04	43.79	11.87	0.17	0.60

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

\*Item removed from calibration.

**Table 49. 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	0.16	0.02	0.78	39	2	2		0.45	0.21	0.73
2	1	3		0.31	0.03	0.81	40	2	1	2	0.24	0.12	0.98
3	1	3		0.38	0.04	0.44	42	2	1	1	0.38	0.26	0.75
4	1	4		0.35	0.07	0.67	43	2	1		0.48	0.13	0.62
5	1	4		0.42	0.13	0.86	44	2	1	1	0.54	0.16	0.80
6	1	1	1	0.20	0.21	0.41	46	2	1	2	0.49	0.10	0.66
8	1	1	2	0.28	0.13	0.74	47	2	1	1	0.54	0.23	0.77
9	1	3		0.48	0.08	0.58	49	2	1		0.43	0.14	0.69
10	1	2		0.21	0.05	0.95	50	2	4		0.36	0.17	0.83
11	1	3		0.18	0.05	0.22	51	3	2		0.34	0.02	0.73
12	1	1	1	0.52	0.05	0.81	52	3	1	1	0.48	0.04	0.85
13	1	1	1	0.37	0.27	0.27	54	3	4		0.43	0.08	0.75
14	1	4		0.19	0.03	0.85	55	3	4		0.37	0.19	0.81
15	1	2		0.38	0.17	0.58	56	3	1	2	0.44	0.07	0.77
16	1	4		0.22	0.28	0.25	58	3	4		0.36	0.10	0.61
17	1	1	2	0.35	0.04	0.68	59	3	1	2	0.45	0.06	0.58
18	1	4		0.35	0.06	0.91	60	3	4		0.32	0.32	0.42
19	1	3		0.21	0.17	0.16	62	3	1	1	0.35	0.30	0.60
20	1	2		0.46	0.22	0.39	64	3	1	1	0.59	0.22	0.72
26	2	2		0.39	0.03	0.83	65	3	4		0.40	0.25	0.86
27	2	1		0.36	0.06	0.54	66	3	1	1	0.45	0.30	0.82
28	2	3		0.33	0.14	0.72	67	3	3		0.43	0.36	0.89
30	2	2		0.54	0.11	0.56	68	3	1	1	0.33	0.25	0.66
31	2	2		0.32	0.04	0.63	69	3	4		0.37	0.47	0.82
32	2	2		0.37	0.06	0.80	70	3	3		0.35	1.21	0.65
34	2	3		0.20	0.21	0.86	72	3	1	2	0.39	0.07	0.56
35	2	2		0.37	0.15	0.32	73	3	2		0.39	0.38	0.46
36	2	2		0.36	0.14	0.87	74	3	1	1	0.52	0.20	0.59
37	2	3		0.40	0.11	0.84							

Mean Item-Total Corr.: 0.37 Mean p-Value: 0.67

**Table 50. 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		
7		1	2		0.45	41.71	39.59	18.21			0.50	0.38
21		1	1	2	0.47	66.18	33.46				0.36	0.33
22		1	1	1	0.49	33.22	66.43				0.35	0.66
23		1	1	1	0.44	29.21	39.35	31.03			0.41	0.51
24		1	1	2	0.43	59.41	40.13				0.46	0.40
25		1	1	2	0.45	21.56	17.96	59.90			0.58	0.69
29		2	2		0.47	53.34	23.64	22.79			0.22	0.35
33		2	4		0.33	81.04	14.53	3.52			0.91	0.11
38		2	4		0.45	54.65	44.64				0.71	0.45
41*		2	1	1	0.56	39.97	9.83	49.51			0.69	0.54
45		2	2		0.61	20.72	34.88	44.03			0.38	0.61
48		2	3		0.50	3.80	37.38	58.72			0.10	0.77
53		3	4		0.43	71.70	27.76				0.53	0.28
57		3	3		0.39	47.61	52.09				0.30	0.52
61		3	3		0.31	2.61	12.79	84.41			0.19	0.91
63		3	4		0.58	12.72	56.63	28.86			1.79	0.57
71		3	3		0.48	28.97	59.39	11.47			0.17	0.41
75		3	1	2	0.44	49.45	38.25	11.89			0.41	0.31

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.49

\*Item removed from calibration.

**Table 51. 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
5	3	1	3	0.35	0.11	0.96	41	4	4	1	0.55	0.62	0.82
7	3	4	1	0.44	0.14	0.88	42	4	4	1	0.48	0.55	0.80
8	3	1	3	0.28	0.15	0.56	43	4	5		0.34	0.64	0.56
9	3	4	1	0.32	0.30	0.60	44	4	1	2	0.32	7.86	0.73
11	3	4	1	0.43	0.15	0.47	46	4	4	2	0.57	1.76	0.83
12	3	6	1	0.33	0.25	0.44	47	4	1	3	0.46	1.89	0.80
13	3	1	3	0.41	0.10	0.90	48	4	4	2	0.38	2.31	0.75
14	3	6	1	0.47	0.20	0.75	49	4	4	2	0.54	2.73	0.79
15	3	5		0.10	0.27	0.32	50	4	1	2	0.51	3.99	0.76
16	3	5		0.28	0.27	0.29	52	4	4	1	0.55	4.58	0.78
17	3	5		0.58	0.43	0.62	53	4	1	3	0.52	4.90	0.71
18	3	5		0.34	0.40	0.51	54	4	1	1	0.55	5.44	0.57
19	3	5		0.22	0.47	0.81	55	4	4	1	0.42	5.90	0.57
22	3	1	2	0.26	0.98	0.61	56	4	1	1	0.47	5.99	0.63
23	3	1	3	0.49	2.50	0.46	57	4	5		0.45	6.38	0.59
24	3	4	2	0.29	1.11	0.41	58	4	5		0.38	6.47	0.38
25	3	4	2	0.48	1.32	0.75	102	6	4	1	0.32	0.14	0.43
26	3	5		0.36	1.14	0.34	104	6	6	1	0.40	0.19	0.63
28	4	1	2	0.36	0.41	0.79	105	6	4	1	0.49	0.49	0.77
30	4	1	3	0.48	0.16	0.63	106	6	6	1	0.42	0.10	0.87
31	4	4	2	0.37	0.27	0.66	107	6	6	1	0.22	0.14	0.63
32	4	4	2	0.42	0.57	0.85	108	6	1	3	0.45	0.27	0.77
34	4	1	1	0.47	0.15	0.84	109	6	5		0.25	0.08	0.47
35	4	1	3	0.33	0.35	0.61	110	6	5		0.44	0.25	0.72
36	4	1	1	0.52	0.34	0.84	112	6	4	2	0.30	0.47	0.73
38	4	6	1	0.51	0.75	0.71	113	6	4	2	0.53	0.19	0.79
39	4	5		0.43	0.27	0.81	114	6	1	3	0.31	0.22	0.48
40	4	1	1	0.50	0.58	0.79	115	6	1	3	0.48	0.30	0.87

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.67

**Table 52. 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		
4		3	6	1	0.53	49.28	35.92	13.76			1.04	0.32
6		3	1	1	0.53	23.82	50.65	18.37	6.36		0.80	0.35
10		3	4	1	0.54	49.97	28.42	20.09			1.52	0.34
20		3	5		0.54	11.12	10.11	24.99	50.12		3.66	0.70
21		3	1	2	0.49	49.87	27.90	19.31			2.92	0.33
27		4	5		0.62	30.74	14.48	54.04			0.73	0.61
29		4	5		0.45	28.48	7.62	26.15	36.28		1.48	0.56
33		4	1	1	0.58	29.75	35.04	23.09	10.77		1.35	0.38
37		4	6	1	0.46	59.57	34.22	3.88			2.33	0.21
45		4	6	2	0.62	26.93	38.05	23.38	7.53		4.12	0.36
51		4	6	1	0.54	21.02	49.64	12.56	8.91		7.85	0.34
101		6	6	1	0.51	37.36	51.29	10.62			0.73	0.36
103		6	6	1	0.52	39.09	25.32	33.53			2.06	0.46
111		6	1	2	0.64	13.99	31.84	37.99	14.74		1.44	0.51

Mean Item-Total Corr.: 0.54    Mean p-Value: 0.42



**Table 53. 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
59	5	3	7	0.36	0.03	0.89	80	5	2	7	0.39	0.13	0.90
60	5	3	7	0.46	0.10	0.78	81	5	2	7	0.33	0.21	0.72
61	5	3	7	0.42	0.37	0.84	82	5	2		0.50	0.31	0.77
62	5	3	7	0.42	0.92	0.66	83	5	2	5	0.28	0.15	0.36
63	5	3	7	0.49	1.23	0.78	84	5	2	5	0.31	0.19	0.52
64	5	3	7	0.34	0.11	0.68	85	5	2	5	0.47	0.21	0.68
65	5	3	7	0.40	0.19	0.73	86	5	3	7	0.46	0.29	0.85
66	5	3	7	0.51	0.65	0.79	87	5	2	5	0.48	0.37	0.77
67	5	3	7	0.39	0.27	0.53	88	5	2	5	0.42	0.36	0.66
68	5	3	7	0.49	0.57	0.82	89	5	2	7	0.21	0.39	0.41
69	5	3	7	0.22	0.82	0.47	90	5	2	7	0.53	0.58	0.82
70	5	3	7	0.42	0.30	0.84	91	5	2	8	0.42	0.27	0.66
71	5	3	7	0.18	0.50	0.33	92	5	2	8	0.51	0.46	0.83
72	5	3	7	0.50	0.39	0.71	93	5	2	8	0.49	0.47	0.59
73	5	3	7	0.37	0.33	0.43	94	5	2	5	0.40	0.28	0.64
74	5	3	7	0.32	0.31	0.36	95	5	3	8	0.43	0.55	0.69
75	5	3	7	0.35	0.43	0.54	96	5	3	8	0.52	0.85	0.79
76	5	3	7	0.40	0.65	0.46	97	5	3	8	0.47	0.37	0.79
77	5	3	7	0.39	0.59	0.50	98	5	3	8	0.23	0.54	0.34
78	5	2		0.32	0.13	0.97	99	5	3	8	0.43	0.61	0.60

Mean Item-Total Corr.: 0.40 Mean p-Value: 0.66

**Table 54. 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	0.11	1.01	98.99				0.00	0.99
2	A	2	3	7	0.48	22.00	77.84				0.16	0.78
2	B	2	3	8	0.51	18.12	81.69				0.19	0.82
2	C	2	3	8	0.10	9.61	90.19				0.21	0.90
2	D	2	3	8	0.53	37.32	62.51				0.18	0.63
2	E	2	3	8	0.44	23.93	75.88				0.19	0.76
2	F	2	3	8	0.46	11.79	88.03				0.18	0.88
3	A	2	2	6	0.61	1.12	3.52	39.95	45.50	9.78	0.13	0.65
3	B	2	2	6	0.63	0.07	4.07	40.97	44.89	9.87	0.13	0.65
3	C	2	3	6	0.49	0.10	10.89	88.87			0.13	0.94
79		5	2	5	0.55	0.60	4.33	41.50	48.59	4.23	0.74	0.63
100		5	2	5	0.53	0.23	3.45	28.33	62.33	3.92	1.75	0.66
116		5	2	5	0.58	0.33	4.28	38.39	52.89	3.36	0.75	0.63

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.76

**Table 55. 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	0.50	0.10	0.50	29	2	6		0.63	1.10	0.49
2	1	2		0.46	0.10	0.52	31	2	2	2	0.42	0.23	0.44
3	1	1	1	0.51	0.14	0.61	32	2	3		0.49	0.29	0.59
4	1	4	3	0.29	0.79	0.48	34	2	4		0.42	0.27	0.38
6	1	6		0.52	0.17	0.74	35	2	6		0.32	0.22	0.70
7	1	6		0.42	0.60	0.76	36	2	2	2	0.28	0.12	0.92
9	1	6		0.41	0.91	0.83	38	2	6		0.50	0.34	0.47
10*	1	2	2	-0.01	0.14	0.11	39	2	4		0.39	1.03	0.70
11	1	2	2	0.41	0.22	0.51	41	3	1		0.52	0.14	0.45
12	1	4		0.33	0.14	0.31	42	3	6	1	0.51	0.14	0.45
13	1	3		0.48	0.17	0.52	43	3	1	1	0.45	0.28	0.50
14	1	4	3	0.35	0.14	0.78	46	3	6		0.39	0.65	0.66
15	1	6	1	0.39	0.09	0.84	47	3	4		0.54	0.15	0.56
17	1	2	2	0.42	0.45	0.84	49	3	3		0.44	0.55	0.56
18	1	1		0.63	0.19	0.55	50	3	1		0.55	0.71	0.53
19	1	4	3	0.49	0.29	0.54	52	3	1		0.33	0.32	0.30
21	2	3		0.38	0.09	0.65	53	3	4		0.28	0.24	0.88
22	2	3		0.34	0.07	0.83	54	3	1	1	0.41	0.46	0.50
24	2	1	1	0.61	0.07	0.65	55	3	3		0.49	0.28	0.47
25	2	3		0.20	0.23	0.35	57	3	2		0.37	0.31	0.72
26	2	4	3	0.44	0.23	0.77	58	3	4	3	0.53	0.38	0.42
27	2	4		0.46	0.21	0.78	59	3	4		0.26	0.29	0.57
28	2	1		0.52	0.46	0.53							

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.58

\*Item removed from calibration.

**Table 56. 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		0.69	0.90	30.07	29.57	39.39		0.06	0.69
8		1	4	3	0.53	17.08	19.71	63.04			0.17	0.73
16		1	1	1	0.70	22.49	25.92	32.20	17.59		1.80	0.48
20		1	2	2	0.65	1.28	6.34	16.98	33.12	42.04	0.25	0.77
23		2	3		0.41	6.32	39.25	54.35			0.08	0.74
30		2	4	3	0.67	19.70	32.06	25.63	21.82		0.80	0.50
33		2	2	2	0.51	8.65	9.61	21.57	59.94		0.23	0.78
37		2	4	3	0.55	18.84	16.92	63.78			0.47	0.72
40		2	1	1	0.76	26.35	28.87	16.68	15.22	12.58	0.31	0.40
44		3	6	1	0.58	31.42	32.25	35.49			0.84	0.52
45		3	2	2	0.66	19.21	18.78	43.18	18.65		0.19	0.54
48		3	3		0.50	12.49	42.19	44.99			0.34	0.66
51		3	4	3	0.65	20.40	22.35	37.21	19.58		0.47	0.52
56		3	6	1	0.58	52.50	22.31	24.75			0.44	0.36
60		3	3		0.67	5.66	18.07	20.77	30.98	24.07	0.44	0.62

Mean Item-Total Corr.: 0.61 Mean p-Value: 0.60

**Table 57. 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	0.31	0.50	39	4	6	4	0.34	0.21	0.63
7	3	1	3	0.43	0.17	0.46	40	4	5		0.43	0.65	0.70
8	3	1	3	0.52	0.48	0.61	42	4	5		0.51	0.24	0.79
9	3	4	2	0.41	0.14	0.84	45	4	1	2	0.36	0.50	0.59
10	3	1	3	0.43	0.17	0.85	46	4	1	2	0.20	0.97	0.37
11	3	5		0.35	0.23	0.35	47	4	4	2	0.40	1.06	0.37
12	3	5		0.57	0.11	0.68	48	4	4	2	0.54	1.23	0.77
13	3	5		0.44	0.24	0.59	49	4	1	2	0.34	1.23	0.47
15	3	1	1	0.46	0.14	0.88	50	4	4	2	0.25	1.40	0.49
16	3	4	1	0.48	0.15	0.89	96	6	4	1	0.55	0.48	0.78
17	3	1	3	0.49	0.20	0.86	97	6	1	1	0.45	0.11	0.85
18	3	4	1	0.43	0.21	0.66	98	6	4	1	0.54	0.25	0.80
19	3	1	3	0.42	0.30	0.70	99	6	1	3	0.19	0.40	0.27
20	3	6	1	0.42	0.46	0.79	100	6	6	1	0.44	0.29	0.57
21	3	5		0.44	0.28	0.75	101	6	6	1	0.52	0.50	0.91
22	3	5		0.42	0.20	0.45	102*	6	4	1	0.12	0.56	0.45
25	4	1	3	0.46	0.11	0.48	103	6	4	1	0.42	0.14	0.80
26	4	4	1	0.43	0.19	0.75	104	6	4	1	0.39	0.20	0.82
27	4	1	3	0.42	0.18	0.51	105	6	5		0.50	0.20	0.69
28	4	1	3	0.40	0.08	0.93	106	6	5		0.25	0.16	0.53
29	4	4	1	0.41	0.13	0.93	107	6	5		0.36	0.12	0.60
30	4	1	1	0.28	0.11	0.53	108	6	5		0.39	0.25	0.71
31	4	6	1	0.46	0.28	0.81	109	6	5		0.18	2.53	0.41
32	4	4	1	0.43	0.34	0.70	112	6	1	3	0.39	0.13	0.53
33	4	1	3	0.45	0.21	0.75	113	6	4	4	0.36	0.31	0.72
36	4	6	4	0.44	0.09	0.61	114	6	6	4	0.29	0.35	0.67
37	4	6	4	0.44	0.16	0.88	115	6	5	4	0.52	0.52	0.60
38	4	6	4	0.37	0.28	0.83	116	6	5	4	0.37	0.63	0.58

Mean Item-Total Corr.: 0.40 Mean p-Value: 0.66

\*Item removed from calibration.

**Table 58. 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		0.49	7.59	9.14	26.76	54.42		2.09	0.75
5		3	1	2	0.47	44.54	30.89	22.86			1.71	0.38
14		3	6	1	0.50	12.90	41.91	21.06	22.83		1.31	0.51
24		4	5		0.44	19.46	44.51	29.37	5.18		1.47	0.40
34		4	1	1	0.44	11.19	39.53	36.95	11.47		0.87	0.49
35		4	4	1	0.48	42.05	44.14	12.44			1.36	0.35
41		4	1	4	0.66	12.99	12.82	27.42	45.17		1.61	0.68
43		4	6	4	0.47	23.91	38.59	26.14	9.83		1.53	0.40
44		4	1	2	0.61	22.27	13.88	61.05			2.80	0.68
93		6	6	1	0.61	12.70	44.66	41.82			0.82	0.64
94		6	4	1	0.50	19.16	57.63	22.20			1.01	0.51
95		6	6	1	0.58	25.12	27.20	13.30	32.10		2.27	0.50
110		6	1	4	0.56	27.21	45.22	25.67			1.90	0.48
111		6	1	4	0.37	23.16	59.50	15.52			1.82	0.45

Mean Item-Total Corr.: 0.51    Mean p-Value: 0.52

**Table 59. 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
51	5	3	7	0.35	0.04	0.95	72	5	3	7	0.42	0.30	0.87
52	5	3	7	0.42	0.11	0.79	73	5	3	7	0.24	0.23	0.29
53	5	3	7	0.42	0.21	0.87	74	5	3	7	0.27	0.40	0.72
54	5	3	7	0.36	0.09	0.81	75	5	3	7	0.33	0.53	0.33
55	5	3	7	0.29	0.18	0.66	76	5	3	7	0.37	0.41	0.61
56	5	3	7	0.39	0.53	0.86	77	5	3	7	0.43	0.33	0.52
57	5	3	7	0.37	0.19	0.71	78	5	2	5	0.30	0.12	0.34
58	5	3	7	0.47	0.60	0.86	79	5	2	5	0.39	0.16	0.55
59	5	3	7	0.45	1.69	0.72	80	5	2	5	0.51	0.18	0.80
61	5	3	8	0.51	0.13	0.79	81	5	2	5	0.49	0.24	0.78
62	5	3	8	0.31	0.28	0.37	82	5	2	5	0.48	0.25	0.83
63	5	2	7	0.50	0.24	0.88	83	5	2	5	0.47	0.31	0.71
64	5	2	8	0.39	0.17	0.85	84	5	2	7	0.50	0.29	0.80
65	5	2	8	0.46	0.32	0.87	85	5	2	7	0.52	0.36	0.82
66	5	2	8	0.34	0.35	0.85	86	5	3	8	0.56	0.41	0.81
67	5	2	8	0.51	0.15	0.84	87	5	3	8	0.31	1.06	0.32
68	5	3	7	0.46	0.39	0.83	88	5	3	8	0.47	0.44	0.69
69	5	2	8	0.46	0.57	0.75	89	5	2	7	0.51	0.37	0.71
70	5	3	7	0.16	0.31	0.60	90	5	3	8	0.30	0.49	0.31
71	5	3	7	0.31	0.35	0.64	91	5	3	8	0.56	0.66	0.80

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.70

**Table 60. 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	0.15	1.21	98.79				0.00	0.99
2	A	2	3	7	0.55	23.42	76.47				0.11	0.76
2	B	2	3	7	0.33	22.71	77.13				0.15	0.77
2	C	2	3	8	0.47	26.11	73.77				0.13	0.74
2	D	2	3	7	0.47	42.88	57.00				0.12	0.57
2	E	2	3	8	0.57	48.20	51.68				0.12	0.52
2	F	2	3	8	0.38	55.61	44.25				0.14	0.44
3	A	2	2	6	0.63	2.28	3.70	41.20	44.45	8.17	0.20	0.63
3	B	2	2	6	0.64	0.05	4.42	42.91	44.17	8.25	0.20	0.64
3	C	2	3	6	0.48	0.12	12.82	86.86			0.20	0.93
23		5	2	5	0.56	0.20	4.39	48.94	41.15	4.31	1.01	0.61
60		5	2	5	0.56	0.25	2.77	30.11	54.53	11.57	0.76	0.68
92		5	2	5	0.56	0.68	8.66	51.09	32.86	4.26	2.44	0.57

Mean Item-Total Corr.: 0.49 Mean p-Value: 0.68

**Table 61. 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	0.67	32	2	2		0.43	0.16	0.51
2	1	4		0.37	0.08	0.67	33	2	2		0.47	0.29	0.76
4	1	3		0.20	0.23	0.64	35	2	4		0.23	0.31	0.33
5	1	2		0.39	0.13	0.59	36	2	4		0.44	0.26	0.77
6	1	4		0.23	1.66	0.21	37	2	2		0.46	0.42	0.46
7	1	1		0.48	0.24	0.52	38	2	4		0.40	0.33	0.53
8	1	1		0.47	0.35	0.49	39	2	1		0.37	0.76	0.79
10	1	3		0.30	0.12	0.88	41	3	2		0.32	0.06	0.54
12	1	2		0.40	0.32	0.42	42	3	1	1	0.46	0.18	0.71
13	1	1		0.32	0.41	0.45	44	3	4		0.40	0.16	0.66
14	1	1		0.31	0.67	0.89	45	3	2		0.38	0.08	0.85
16	1	1		0.43	0.36	0.78	46	3	3		0.33	0.33	0.53
17	1	4		0.36	0.40	0.57	47	3	1		0.49	0.60	0.50
18	1	3		0.51	0.34	0.55	48	3	1		0.54	0.55	0.50
19	1	1		0.37	0.44	0.84	50	3	1	1	0.47	0.44	0.50
21	2	1		0.47	0.15	0.34	51	3	3		0.47	0.39	0.45
22	2	2		0.41	0.12	0.72	52	3	1		0.62	0.71	0.52
23	2	3		0.49	0.35	0.60	54	3	4		0.27	0.17	0.75
24	2	1		0.44	0.59	0.31	55	3	2		0.53	0.20	0.60
25	2	3		0.30	0.30	0.29	56	3	3		0.43	0.41	0.75
27	2	3		0.31	0.14	0.20	58	3	4		0.51	0.24	0.62
29	2	4		0.22	0.40	0.47	59	3	4	2	0.29	0.19	0.67
30	2	1		0.56	0.24	0.75							

Mean Item-Total Corr.: 0.40 Mean p-Value: 0.58

**Table 62. 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	62.66	13.46	22.32			1.55	0.29
9		1	1	1	0.76	22.89	19.12	23.78	34.01		0.20	0.56
11		1	3		0.68	29.49	37.92	32.32			0.27	0.51
15		1	4	2	0.70	55.92	23.28	6.20	13.25		1.34	0.25
20		1	1		0.65	9.46	44.16	30.32	6.23	9.22	0.61	0.40
26		2	4	2	0.37	59.32	28.68	10.03			1.96	0.24
28		2	3		0.72	51.75	23.68	13.05	10.96		0.55	0.28
31		2	4		0.65	43.16	32.46	23.70			0.68	0.40
34		2	2		0.67	17.43	18.08	40.30	23.78		0.40	0.57
40		2	4	2	0.71	10.11	26.83	28.95	18.73	14.65	0.73	0.50
43		3	1	1	0.56	28.71	32.12	38.18			1.00	0.54
49		3	4	2	0.67	19.66	33.80	14.97	31.19		0.38	0.52
53		3	1	1	0.62	40.03	26.29	33.23			0.45	0.46
57		3	2		0.41	3.74	10.42	32.84	52.74		0.27	0.78
60		3	3		0.68	16.38	21.75	28.25	28.51	4.23	0.89	0.45

Mean Item-Total Corr.: 0.62 Mean p-Value: 0.45

**Table 63. 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	0.41	0.05	0.92	41	4	1	2	0.29	1.13	0.42
5	3	1	1	0.26	0.06	0.85	42	4	4	2	0.43	1.44	0.39
6	3	4	1	0.23	0.15	0.79	43	4	4	2	0.52	1.36	0.81
7	3	1	3	0.44	0.07	0.83	44	4	1	2	0.41	1.69	0.56
8	3	1	3	0.48	0.10	0.76	45	4	5		0.24	2.76	0.83
9	3	1	1	0.43	0.10	0.83	46	4	5		0.40	2.84	0.46
10	3	4	1	0.37	0.08	0.40	92	6	1	3	0.20	0.15	0.32
11	3	4	1	0.34	0.24	0.79	93	6	1	1	0.26	0.19	0.83
13	3	5		0.38	0.05	0.89	94	6	1	1	0.43	0.19	0.87
14	3	5		0.39	0.11	0.71	95	6	6	1	0.41	0.57	0.55
16	3	4	2	0.38	0.16	0.80	97	6	1	3	0.13	0.20	0.55
17	3	1	3	0.49	0.28	0.89	98	6	1	3	0.38	0.54	0.60
18	3	1	3	0.45	0.11	0.75	99	6	4	1	0.18	1.96	0.50
19	3	4	2	0.23	0.41	0.41	100	6	4	1	0.44	4.37	0.79
20	3	5		0.38	0.35	0.70	101	6	5		0.48	0.24	0.71
21	3	5		0.31	0.37	0.42	102	6	5		0.24	0.20	0.57
23	4	1	2	0.30	0.09	0.77	104	6	4	4	0.36	0.13	0.46
24	4	1	2	0.33	0.09	0.51	105	6	4	4	0.37	0.40	0.73
26	4	4	2	0.33	0.11	0.87	106	6	6	4	0.42	0.26	0.54
27	4	4	2	0.44	0.13	0.77	107	6	6	4	0.20	0.15	0.51
31	4	4	1	0.45	0.15	0.89	108	6	6	4	0.18	0.25	0.35
32	4	6	1	0.52	0.22	0.87	109	6	6	4	0.15	0.32	0.33
33	4	6	1	0.28	0.33	0.44	110	6	1	3	0.36	4.13	0.45
34	4	6	1	0.28	0.52	0.46	112	6	4	2	0.32	1.41	0.47
35	4	6	1	0.48	0.23	0.81	113	6	1	3	0.47	1.36	0.81
36	4	1	3	0.29	0.27	0.70	114	6	1	3	0.48	1.45	0.53
37	4	5		0.44	0.45	0.71	115	6	5		0.46	1.50	0.60
40	4	1	2	0.37	1.83	0.62	116	6	5		0.49	1.58	0.77

Mean Item-Total Corr.: 0.36 Mean p-Value: 0.65

**Table 64. 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		
12		3	5		0.56	8.83	32.97	56.04			2.16	0.73
15		3	1	2	0.55	5.77	43.30	5.33	43.63		1.97	0.62
25		4	1	2	0.53	14.94	55.87	27.82			1.38	0.56
28		4	5		0.62	10.12	24.99	46.42	15.19		3.29	0.54
29		4	6	1	0.50	45.88	24.90	24.07			5.14	0.37
30		4	4	1	0.54	4.62	42.08	30.05	20.32		2.93	0.54
38		4	1	2	0.55	23.66	30.42	41.59			4.33	0.57
39		4	1	2	0.63	20.04	18.53	55.59			5.85	0.65
89		6	6	1	0.60	9.76	41.80	47.43			1.00	0.68
90		6	4	1	0.50	16.27	57.11	25.24			1.38	0.54
91		6	6	1	0.54	19.00	56.05	17.37	5.81		1.78	0.36
96		6	6	1	0.56	20.40	28.61	12.35	35.37		3.28	0.53
103		6	1	4	0.46	17.20	38.22	42.25			2.32	0.61
111		6	5		0.61	3.87	24.92	17.55	19.84	29.04	4.77	0.59

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



**Table 65. 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	0.42	0.07	0.85	68	5	2	8	0.52	0.53	0.88
48	5	3	8	0.45	0.10	0.84	69	5	2	8	0.46	0.67	0.59
49	5	2		0.16	0.14	0.93	70	5	3	7	0.15	0.25	0.39
50	5	2		0.42	0.15	0.66	71	5	3	8	0.38	0.29	0.63
51	5	2		0.47	0.20	0.70	72	5	3	8	0.41	0.32	0.40
52	5	3	7	0.42	0.45	0.90	73	5	2		0.46	0.19	0.63
53	5	2	5	0.33	0.13	0.37	74	5	2	5	0.40	0.22	0.91
54	5	2	5	0.37	0.14	0.62	75	5	3	7	0.45	0.21	0.93
55	5	2	5	0.45	0.15	0.83	76	5	3	7	0.31	1.12	0.37
56	5	2	5	0.19	0.26	0.55	77	5	3	7	0.43	0.22	0.63
57	5	3	7	0.32	0.26	0.55	78	5	3	7	0.44	4.59	0.80
58	5	3	7	0.28	0.43	0.65	79	5	3	7	0.40	0.30	0.57
59	5	3	7	0.30	0.71	0.67	80	5	3	7	0.52	0.73	0.81
60	5	3	7	0.34	0.61	0.68	81	5	3	7	0.48	0.80	0.76
61	5	3	7	0.27	0.37	0.76	82	5	3	7	0.49	0.77	0.73
62	5	3	7	0.17	0.24	0.48	83	5	3	8	0.39	0.31	0.81
64	5	3	8	0.48	0.16	0.82	84	5	3	8	0.48	0.70	0.69
65	5	3	8	0.38	0.21	0.90	85	5	2	8	0.53	0.31	0.82
66	5	2	8	0.40	0.19	0.76	86	5	3	7	0.54	0.30	0.75
67	5	2	8	0.47	0.19	0.72	87	5	2	5	0.49	0.37	0.75

Mean Item-Total Corr.: 0.40 Mean p-Value: 0.70

**Table 66. 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	1.31	98.69				0.00	0.99
2	A	2	3	8	0.41	20.63	79.22				0.15	0.79
2	B	2	3	8	0.34	39.37	60.50				0.13	0.60
2	C	2	3	7	0.27	8.02	91.82				0.16	0.92
2	D	2	3	8	0.38	25.94	73.93				0.13	0.74
2	E	2	3	7	0.47	50.41	49.44				0.15	0.49
2	F	2	3	8	0.42	20.21	79.65				0.14	0.80
3	A	2	2	6	0.60	1.64	2.15	16.96	70.32	8.70	0.24	0.70
3	B	2	2	6	0.63	0.03	2.90	19.00	69.05	8.77	0.24	0.71
3	C	2	3	6	0.48	0.11	9.15	90.50			0.24	0.95
22		5	2	5	0.52	0.49	3.09	42.09	43.44	9.21	1.66	0.64
63		5	2	5	0.58	0.16	2.45	36.80	51.18	8.70	0.71	0.66
88		5	2	5	0.59	0.65	7.79	43.20	40.89	4.42	3.06	0.59

Mean Item-Total Corr.: 0.45 Mean p-Value: 0.74

**Table 67. 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	0.35	0.14	0.60	32	2	1		0.49	0.37	0.64
3	1	1		0.27	0.66	0.75	33	2	4		0.42	0.26	0.29
4	1	1		0.46	0.50	0.56	35	2	3		0.30	0.27	0.67
5	1	3	2	0.44	1.03	0.61	36	2	2	1	0.13	0.41	0.16
7	1	3		0.51	0.21	0.49	37	2	1		0.34	0.46	0.45
8	1	2		0.36	0.24	0.56	38	2	1		0.57	0.73	0.57
10	1	1	2	0.46	0.45	0.40	39	2	2	1	0.46	1.52	0.29
11	1	2		0.44	0.39	0.48	41	3	4		0.40	0.14	0.56
12	1	4	3	0.42	0.24	0.45	42	3	1		0.51	0.09	0.73
13	1	4		0.34	0.12	0.67	43	3	4	3	0.14	0.13	0.26
14	1	4	2	0.59	0.41	0.41	44	3	2		0.36	0.11	0.83
16	1	4	2	0.34	0.39	0.75	46	3	3		0.19	0.12	0.18
17	1	4	2	0.20	0.52	0.60	47	3	3		0.26	0.16	0.23
18	1	3		0.32	0.49	0.86	48	3	4	3	0.15	0.35	0.27
19	1	1		0.35	0.88	0.41	49	3	1		0.41	0.33	0.53
21	2	3		0.49	0.19	0.65	51	3	3		0.54	0.35	0.36
22	2	4	2	0.37	0.26	0.70	53	3	4	3	0.20	0.31	0.20
23	2	2		0.51	0.10	0.67	54	3	2		0.47	0.37	0.43
24	2	3		0.54	0.10	0.52	55	3	2	1	0.36	0.37	0.52
26	2	2		0.44	0.16	0.72	57	3	4	3	0.34	0.17	0.78
27	2	4	3	0.44	0.13	0.20	58	3	1		0.47	0.19	0.75
29	2	4	3	0.27	0.38	0.17	59	3	2	1	0.28	0.16	0.38
30	2	1	2	0.32	0.47	0.50							

Mean Item-Total Corr.: 0.38 Mean p-Value: 0.51

**Table 68. 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	32.11	21.95	45.77			0.17	0.57
6		1	3		0.73	37.94	12.56	20.10	27.53		1.88	0.45
9		1	1		0.57	73.94	4.81	19.34			1.90	0.22
15		1	1	2	0.55	63.08	18.52	8.88	7.27		2.25	0.19
20		1	1	2	0.71	41.84	20.17	27.42	3.47	5.30	1.80	0.27
25		2	4	2	0.67	37.06	32.67	29.06			1.21	0.45
28		2	3		0.70	14.75	30.34	29.78	24.36		0.76	0.54
31		2	4	3	0.67	43.89	32.33	21.91			1.87	0.38
34		2	4	3	0.61	65.96	21.37	5.82	4.29		2.55	0.15
40		2	4	3	0.70	7.80	22.77	28.19	20.43	19.53	1.28	0.55
45		3	3		0.67	25.36	37.45	36.80			0.39	0.56
50		3	4	3	0.56	12.06	55.90	22.58	8.73		0.72	0.42
52		3	1		0.54	57.29	6.41	34.29			2.01	0.37
56		3	2	1	0.73	30.03	27.83	20.60	20.01		1.53	0.43
60		3	2	1	0.69	4.81	7.05	23.67	33.53	30.30	0.64	0.69

Mean Item-Total Corr.: 0.64 Mean p-Value: 0.42

**Table 69. 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	1	1	0.47	0.06	0.57	45	2	2	3	0.31	0.20	0.62
3	1	2		0.30	0.16	0.53	46	2	4	6	0.17	0.59	0.28
4	1	1	1	0.39	0.04	0.44	47	2	1	1	0.44	0.45	0.59
5	1	2	3	0.36	0.24	0.49	48	2	4		0.05	0.79	0.11
6	1	1	1	0.40	0.04	0.42	50	2	3	5	0.38	0.17	0.89
7	1	1	2	0.37	0.07	0.61	51	2	1	1	0.32	0.47	0.50
9	1	1		0.49	0.16	0.65	52	2	4	6	0.48	0.35	0.64
10	1	3		0.30	0.03	0.32	54	2	2	3	0.26	0.13	0.56
11	1	2	3	0.24	0.19	0.53	55	2	1	1	0.33	0.29	0.55
13	1	1	2	0.47	0.14	0.53	56	3	4	6	0.22	0.05	0.77
14	1	3		0.47	0.06	0.73	57	3	2		0.29	0.11	0.43
15	1	4		0.37	0.20	0.33	59	3	2	3	0.36	0.07	0.79
16	1	3	5	0.36	0.28	0.44	60	3	1	2	0.25	0.11	0.65
17	1	3	5	0.38	0.07	0.66	61	3	1	1	0.24	0.08	0.32
18	1	1	2	0.46	0.07	0.64	63	3	1	2	0.46	0.11	0.51
27	2	2	3	0.43	0.04	0.77	64	3	1	2	0.40	0.18	0.81
28	2	3	5	0.15	0.32	0.39	65	3	4		0.20	0.21	0.21
29	2	1	2	0.26	2.17	0.62	67	3	4	6	0.33	0.15	0.33
30	2	1	1	0.31	0.12	0.75	68	3	1	1	0.41	0.58	0.57
32	2	4	6	0.41	0.12	0.42	70	3	1	1	0.39	0.17	0.39
34	2	1		0.51	0.13	0.79	72	3	2		0.37	0.16	0.61
35	2	2	3	0.19	0.29	0.37	73	3	1	1	0.39	0.22	0.64
36	2	2		0.40	0.24	0.60	74	3	2	3	0.10	0.20	0.25
37	2	2	3	0.33	0.08	0.48	75	3	4		0.17	0.45	0.69
38	2	1	2	0.40	0.16	0.76	77	3	1	2	0.35	0.17	0.32
39	2	3	5	0.40	0.23	0.69	79	3	2	3	0.45	0.32	0.41
40	2	1	1	0.15	0.13	0.54	80	3	3	5	0.29	0.26	0.44
41	2	4		0.33	0.19	0.25	81	3	4	6	0.42	0.25	0.61
43	2	4		0.35	0.24	0.51	82	3	1	1	0.34	0.17	0.91
44	2	1	2	0.53	0.19	0.73	83	3	3	5	0.25	0.22	0.36

Mean Item-Total Corr.: 0.34 Mean p-Value: 0.54

**Table 70. 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	2	0.61	40.86	46.56	6.45			6.13	0.30
8		1	3	5	0.34	65.93	8.66	1.42			24.0	0.06
12		1	4	6	0.13	91.57	6.17				2.26	0.06
19		1	1	1	0.51	34.86	35.59	28.52			1.03	0.46
20		1	1	1	0.47	55.38	43.08				1.54	0.43
21		1	1	2	0.37	23.30	75.37				1.33	0.75
22		1	1	2	0.50	8.03	10.06	18.66	31.42	31.15	0.68	0.67
23		1	1	2	0.50	21.85	76.40				1.76	0.76
24		1	1	1	0.30	72.41	25.98				1.60	0.26
25		1	1	2	0.37	63.83	33.71				2.46	0.34
26		2	4	6	0.45	66.37	5.23	24.00			4.40	0.27
31		2	2	3	0.58	58.33	26.10	14.60			0.97	0.28
33		2	4	6	0.33	68.51	28.10				3.38	0.28
42		2	1	2	0.52	32.36	29.18	36.13			2.33	0.51
49		2	3	5	0.37	38.98	58.91				2.10	0.59
53		2	3	5	0.43	24.40	21.94	52.17			1.49	0.63
58		3	4	6	0.48	45.37	31.90	22.14			0.59	0.38
62		3	3	5	0.54	48.81	40.71	1.80	0.82		7.86	0.16
66		3	3	5	0.53	49.54	45.39				5.07	0.45
69		3	2	3	0.38	58.18	32.48	5.24	2.53		1.57	0.17
71		3	2		0.48	74.30	23.08				2.62	0.23
76		3	4	6	0.55	43.62	41.73	13.08			1.57	0.34
78		3	3	5	0.51	50.68	39.91	1.61			7.80	0.22

Mean Item-Total Corr.: 0.45 Mean p-Value: 0.37

**Table 71. 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	0.57	0.08	0.83	39	4	6	1	0.41	0.13	0.57
6	3	4	1	0.42	0.07	0.92	40	4	6	4	0.00	0.12	0.10
7	3	6	1	0.48	0.05	0.91	41	4	6	4	0.36	0.14	0.72
8	3	6	1	0.33	0.14	0.46	42	4	6	4	0.42	0.14	0.67
9	3	6	1	0.29	0.12	0.54	44	4	6	4	0.37	0.47	0.54
10	3	6	1	0.45	0.07	0.86	46	4	1	2	0.32	0.41	0.53
11	3	1	3	0.26	0.14	0.72	47	4	1	2	0.27	0.12	0.78
12	3	5		0.47	0.34	0.74	48	4	1	2	0.40	0.21	0.62
17	3	4	2	0.39	0.45	0.84	49	4	5	2	0.43	0.30	0.71
18	3	1	3	0.50	0.23	0.90	50	4	5	2	0.49	0.26	0.73
19	3	1	3	0.47	0.28	0.77	51	4	5	2	0.46	0.24	0.63
20	3	1	2	0.33	0.38	0.79	52	4	1	2	0.33	0.24	0.71
21	3	1	2	0.43	0.35	0.86	53	4	5		0.27	0.43	0.29
22	3	4	2	0.21	0.41	0.38	54	4	1	3	0.41	0.23	0.51
23	3	5		0.39	0.49	0.73	98	6	4	2	0.53	0.19	0.76
24	3	5		0.34	0.55	0.42	99	6	1	3	0.51	0.14	0.84
26	3	4	4	0.37	0.40	0.80	101	6	5		0.11	0.73	0.50
27	3	4	4	0.35	0.49	0.69	102	6	5		0.53	0.14	0.72
29	3	6	4	0.12	1.89	0.28	103	6	5	3	0.41	0.07	0.87
30	3	6	4	0.40	0.71	0.72	104	6	5		0.54	0.20	0.70
31	3	5		0.47	0.61	0.59	107	6	4	2	0.40	0.36	0.43
32*	3	5		-.04	0.69	0.44	108	6	1	2	0.45	0.27	0.60
33	3	5	2	0.34	4.56	0.81	109	6	4	2	0.38	0.34	0.52
34	4	1	1	0.38	0.05	0.60	110	6	4	2	0.46	0.30	0.79
35	4	6	1	0.33	0.07	0.84	111	6	1	3	0.35	0.45	0.36
36	4	5		0.49	0.06	0.79	113	6	5		0.46	0.64	0.48
37	4	6	1	0.43	0.09	0.47	114	6	5		0.39	0.52	0.61
38	4	1	3	0.50	0.05	0.78	115	6	5		0.22	0.63	0.28

Mean Item-Total Corr.: 0.38 Mean p-Value: 0.64

\*Item removed from calibration.

**Table 72. 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	0.53	3.99	34.69	28.78	31.05		1.49	0.62
13		3	1	3	0.51	28.43	38.25	22.06	9.91		1.35	0.37
14		3	1	3	0.52	30.96	19.79	42.54	3.80		2.91	0.39
15		3	1	2	0.44	3.60	9.18	25.19	60.75		1.29	0.81
16		3	1	2	0.54	5.26	33.92	6.18	51.50		3.13	0.67
25		3	6	4	0.63	24.60	21.73	24.07	26.82		2.77	0.50
28		3	6	4	0.63	13.95	30.23	32.52	18.89		4.41	0.51
43		4	6	4	0.49	28.31	41.45	18.63	8.65		2.96	0.35
45		4	4	2	0.60	21.37	40.40	20.34	13.75		4.13	0.41
97		6	4	2	0.50	27.00	54.70	10.86	4.06		3.37	0.30
100		6	1	2	0.59	43.63	31.54	20.59			4.24	0.36
105		6	5		0.62	24.82	9.58	27.00	34.25		4.35	0.55
106		6	1	2	0.58	35.15	36.80	19.04			9.01	0.37
112		6	4	2	0.60	23.39	44.11	24.31			8.19	0.46

Mean Item-Total Corr.: 0.56    Mean p-Value: 0.48

**Table 73. 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
55	5	3	7	0.50	0.06	0.75	76	5	3	7	0.47	0.36	0.69
56	5	3	7	0.16	0.15	0.67	77	5	3	7	0.35	0.49	0.38
57	5	3	7	0.37	0.16	0.78	78	5	3	7	0.42	0.68	0.59
58	5	3	7	0.06	0.13	0.35	79	5	3	7	0.54	0.60	0.81
59	5	3	7	0.37	0.26	0.59	80	5	2	5	0.51	0.22	0.78
60	5	2	7	0.44	0.13	0.70	81	5	2	7	0.38	0.34	0.67
61	5	3	8	0.28	4.69	0.30	82	5	2	5	0.31	0.35	0.56
62	5	3	8	0.49	0.19	0.74	83	5	2	7	0.48	0.38	0.69
63	5	3	8	0.46	0.31	0.85	84	5	2	5	0.35	0.34	0.61
64	5	3	8	0.44	0.32	0.86	85	5	2	5	0.49	0.39	0.77
65	5	3	8	0.17	0.17	0.56	86	5	2	5	0.29	0.44	0.46
66	5	3	8	0.34	0.40	0.55	87	5	2	5	0.50	0.41	0.87
67	5	3	8	0.30	0.23	0.64	88	5	2	8	0.49	0.46	0.78
69	5	3	8	0.62	0.25	0.81	89	5	2	8	0.53	0.64	0.69
70	5	3	7	0.43	0.26	0.81	90	5	2	5	0.52	0.41	0.89
71	5	3	8	0.53	0.28	0.83	91	5	2	5	0.52	0.42	0.76
72	5	3	8	0.42	0.22	0.75	92	5	2	7	0.52	0.45	0.70
73	5	3	7	0.45	0.49	0.57	93	5	2	7	0.51	0.83	0.76
74	5	3	7	0.58	0.66	0.70	94	5	3	7	0.55	0.53	0.73
75	5	3	7	0.42	0.57	0.67	95	5	3	7	0.55	0.61	0.75

Mean Item-Total Corr.: 0.43 Mean p-Value: 0.69

**Table 74. 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	0.17	1.58	98.42				0.00	0.98
2	A	2	3	8	0.38	78.09	21.69				0.22	0.22
2	B	2	3	7	0.40	35.68	64.12				0.21	0.64
2	C	2	3	8	0.50	22.50	77.32				0.18	0.77
2	D	2	3	7	0.48	60.15	39.67				0.18	0.40
2	E	2	3	8	0.49	43.01	56.76				0.23	0.57
2	F	2	3	8	0.39	62.49	37.31				0.20	0.37
3	A	2	2	6	0.68	1.26	5.85	28.59	54.23	9.53	0.54	0.66
3	B	2	2	6	0.68	0.04	6.59	30.76	52.49	9.57	0.54	0.66
3	C	2	3	6	0.52	0.10	13.38	85.98			0.54	0.93
68		5	2	5	0.55	0.19	2.00	29.39	55.60	11.51	1.32	0.68
96		5	2	5	0.59	0.38	4.08	32.40	50.59	9.82	2.73	0.65
116		5	2	5	0.57	0.81	8.59	49.63	34.05	4.33	2.60	0.57

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

**Table 75. 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	0.08	0.62	31	2	3		0.37	0.22	0.71
2	1	2	1	0.13	0.89	0.20	32	2	1		0.39	0.22	0.59
3	1	4	1	0.42	0.07	0.73	34	2	4		0.46	0.15	0.33
5	1	4	2	0.35	0.46	0.34	35	2	2		0.38	0.32	0.65
7	1	3		0.53	0.16	0.52	36	2	3		0.52	0.14	0.52
8	1	2		0.49	0.19	0.43	37	2	3		0.23	0.50	0.33
9	1	2	1	0.55	0.19	0.39	39	2	2		0.41	0.80	0.27
10	1	4		0.23	0.73	0.26	41	3	1		0.42	0.10	0.56
12	1	4	2	0.25	0.64	0.34	42	3	1	2	0.45	0.19	0.50
13	1	4		0.31	0.25	0.29	43	3	4		0.41	0.18	0.64
14	1	3		0.46	0.37	0.69	45	3	3		0.24	0.77	0.86
16	1	2		0.16	0.79	0.16	46	3	3	2	0.32	0.31	0.64
17	1	1		0.19	1.02	0.62	47	3	1	2	0.47	0.36	0.34
18	1	4		0.21	0.78	0.43	48	3	4		0.43	0.49	0.66
19	1	2	1	0.36	0.77	0.51	50	3	1		0.53	0.86	0.38
21	2	2	1	0.34	0.12	0.41	51	3	1	2	0.17	0.81	0.30
22	2	4	2	0.39	1.08	0.37	53	3	2		0.26	0.23	0.25
24	2	3		0.53	0.25	0.32	54	3	4		0.41	0.36	0.56
25	2	2		0.25	0.22	0.86	56	3	2		0.54	0.39	0.40
26	2	1		0.34	0.37	0.31	57	3	3		0.23	0.33	0.54
27	2	1		0.22	0.40	0.34	58	3	2	1	0.28	0.39	0.14
28	2	4	2	0.15	0.30	0.50	59	3	4		0.15	0.45	0.53
30	2	1		0.36	0.33	0.46							

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

**Table 76. 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		
4		1	3		0.53	39.43	37.81	22.14			0.62	0.41
6		1	2	1	0.70	14.36	49.99	14.87	18.43		2.35	0.45
11		1	1	2	0.59	69.90	4.64	22.82			2.65	0.25
15		1	1	2	0.65	54.80	20.07	10.04	11.77		3.32	0.25
20		1	3	1	0.57	11.94	42.41	32.82	7.68	3.29	1.85	0.36
23		2	2		0.56	70.98	10.98	13.91			4.12	0.19
29		2	4	2	0.70	61.61	20.42	7.68	7.65		2.64	0.20
33		2	3		0.46	55.46	27.52	14.15			2.87	0.28
38		2	2	1	0.57	10.12	26.20	41.28	20.99		1.41	0.57
40		2	2	1	0.69	16.36	22.01	23.05	23.21	13.65	1.72	0.48
44		3	1		0.64	72.74	4.28	21.59			1.38	0.24
49		3	3	2	0.78	49.39	23.71	16.71	7.74		2.46	0.27
52		3	2	1	0.69	21.46	28.80	47.83			1.90	0.62
55		3	4		0.76	51.39	13.54	11.01	20.03		4.03	0.32
60		3	4	2	0.77	47.93	17.68	16.51	11.52	2.43	3.93	0.24

Mean Item-Total Corr.: 0.64 Mean p-Value: 0.34



**Table 77. 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	0.43	0.03	0.77	39	4	1	3	0.48	0.09	0.90
5	3	1	1	0.38	0.08	0.84	40	4	1	3	0.19	0.27	0.52
6	3	1	1	0.41	0.18	0.80	41	4	5		0.39	0.15	0.48
8	3	4	1	0.48	0.24	0.86	42	4	4	2	0.35	0.23	0.62
9	3	6	1	0.44	0.12	0.81	43	4	4	2	0.54	0.28	0.73
11	3	5		0.25	0.10	0.67	44	4	1	3	0.51	0.17	0.85
12	3	1	3	0.42	0.11	0.74	46	4	5		0.56	0.23	0.74
13	3	5		0.43	0.20	0.72	47	4	5	3	0.41	0.21	0.88
14	3	6	1	0.40	0.50	0.77	48	4	5		0.54	0.28	0.76
17	3	1	3	0.24	0.20	0.73	52	4	1	2	0.48	1.61	0.68
18	3	6	4	0.39	0.44	0.72	96	6	4	2	0.43	0.14	0.52
19	3	6	4	0.35	0.28	0.73	97	6	1	2	0.44	0.11	0.63
20	3	6	4	0.40	0.26	0.72	98	6	4	2	0.37	0.37	0.57
21	3	6	4	0.42	0.23	0.59	99	6	4	2	0.43	0.45	0.80
22	3	5		0.40	0.15	0.72	100	6	1	3	0.40	0.35	0.44
23	3	5	3	0.48	0.19	0.67	102	6	4	2	0.17	0.38	0.36
24	3	5		0.19	0.14	0.77	103	6	5		0.47	0.41	0.53
25	3	5		0.47	0.14	0.92	104	6	5		0.44	0.25	0.72
26	3	5		0.33	0.18	0.85	105	6	5		0.28	0.59	0.31
28	4	1	3	0.41	0.06	0.60	107	6	4	1	0.50	0.17	0.78
29	4	5	1	0.32	0.11	0.53	108	6	6	1	0.27	0.21	0.69
30	4	1	3	0.45	0.05	0.89	109	6	6	1	0.56	0.24	0.73
31	4	1	3	0.36	0.13	0.62	110	6	6	1	0.42	0.46	0.74
33	4	6	1	0.46	0.10	0.70	111	6	6	1	0.25	0.62	0.46
34	4	5		0.27	0.11	0.58	112	6	1	3	0.58	1.16	0.66
35	4	5		0.42	0.22	0.55	113	6	4	1	0.51	0.21	0.84
36	4	5		0.43	1.84	0.51	114	6	1	3	0.25	0.20	0.52
38	4	1	2	0.60	0.14	0.63	115	6	1	3	0.48	0.25	0.80

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

**Table 78. 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	0.47	22.58	34.27	25.77	10.03		7.35	0.39
10		3	6	1	0.54	7.02	16.35	29.27	38.52		8.84	0.63
15		3	6	1	0.58	12.87	36.42	33.80	10.89		6.02	0.46
16		3	6	4	0.65	13.67	8.27	35.34	37.64		5.08	0.64
32		4	1	1	0.60	23.18	25.40	26.27	15.91		9.25	0.42
37		4	1	2	0.56	8.13	35.95	36.94	14.25		4.74	0.51
45		4	1	2	0.63	40.28	26.76	26.46			6.51	0.40
49		4	4	2	0.53	24.01	52.55	11.64	5.78		6.02	0.31
50		4	5		0.65	21.08	9.22	25.15	36.90		7.65	0.57
51		4	4	2	0.62	31.92	18.50	21.53	19.60		8.45	0.40
95		6	1	2	0.59	29.86	39.37	23.19			7.59	0.43
101		6	4	2	0.62	18.78	43.08	29.75			8.39	0.51
106		6	6	1	0.65	22.30	17.86	32.42	22.01		5.42	0.50
116		6	4	1	0.65	10.27	26.50	47.99	11.56		3.68	0.52

Mean Item-Total Corr.: 0.60    Mean p-Value: 0.48

**Table 79. 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
53	5	3	8	0.50	0.04	0.68	73	5	2	5	0.52	0.41	0.82
54	5	3	8	0.22	0.10	0.70	75	5	2	5	0.52	0.39	0.81
55	5	3	8	0.20	0.31	0.44	76	5	2	7	0.41	0.46	0.75
56	5	3	8	0.41	1.39	0.88	77	5	2	5	0.34	0.41	0.60
57	5	3	8	0.40	1.75	0.38	78	5	2	7	0.49	0.48	0.72
58	5	3	7	0.58	0.09	0.87	79	5	2	5	0.33	0.30	0.63
59	5	3	7	0.37	0.22	0.61	80	5	2	5	0.48	0.30	0.80
60	5	3	7	0.50	0.25	0.76	81	5	2	5	0.54	0.29	0.87
61	5	3	7	0.40	0.46	0.50	82	5	2	7	0.43	0.53	0.87
62	5	3	7	0.56	0.14	0.82	83	5	3	8	0.39	0.37	0.56
63	5	3	7	0.38	0.17	0.78	84	5	3	8	0.46	0.44	0.48
64	5	3	7	0.49	0.39	0.73	85	5	3	8	0.47	0.38	0.65
65	5	3	7	0.38	0.25	0.60	86	5	2	8	0.55	0.38	0.88
66	5	3	8	0.31	0.14	0.70	87	5	2	7	0.45	0.50	0.83
67	5	3	7	0.50	0.20	0.73	88	5	2	7	0.39	0.58	0.79
68	5	3	7	0.34	0.55	0.47	89	5	2	7	0.44	0.34	0.93
69	5	3	7	0.29	0.42	0.48	90	5	2	7	0.53	0.33	0.79
70	5	3	7	0.43	0.97	0.61	91	5	3	7	0.56	0.35	0.75
71	5	3	8	0.27	0.23	0.45	92	5	3	7	0.39	0.36	0.63
72	5	2	5	0.24	0.36	0.55	93	5	3	7	0.37	0.52	0.35

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.68

**Table 80. 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	0.17	2.03	97.97				0.00	0.98
2	A	2	3	7	0.29	81.53	18.16				0.30	0.18
2	B	2	3	8	0.35	28.76	70.95				0.29	0.71
2	C	2	3	7	0.49	41.14	58.52				0.34	0.59
2	D	2	3	8	0.21	5.04	94.62				0.35	0.95
2	E	2	3	8	0.36	35.79	63.81				0.40	0.64
2	F	2	3	7	0.49	33.57	66.13				0.31	0.66
3	A	2	2	6	0.67	0.59	4.25	29.04	59.66	6.06	0.40	0.66
3	B	2	2	6	0.68	0.06	4.66	30.31	58.77	5.81	0.40	0.66
3	C	2	3	6	0.56	0.12	18.04	81.44			0.40	0.90
27		5	2	5	0.64	2.19	6.28	44.23	35.73	6.87	4.69	0.57
74		5	2	5	0.57	0.50	4.70	34.48	42.71	14.93	2.69	0.65
94		5	2	5	0.61	0.51	8.33	50.02	31.33	6.72	3.09	0.57

Mean Item-Total Corr.: 0.47 Mean p-Value: 0.67

**Table 81. 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	1		0.27	0.29	0.70	32	2	1		0.27	0.23	0.24
2	1	1		0.50	0.24	0.32	33	2	2		0.38	0.34	0.56
3	1	4		0.29	4.71	0.27	35	2	3		0.34	0.34	0.52
4	1	4	1	0.41	0.06	0.78	36	2	2	1	0.58	0.29	0.58
6	1	1		0.44	0.11	0.71	37	2	3	2	0.18	0.19	0.25
7	1	4		0.27	0.18	0.47	38	2	2		0.46	0.21	0.64
8	1	3	2	0.18	0.21	0.35	39	2	1		0.56	0.26	0.55
9	1	4		0.44	0.23	0.13	41	3	2		0.38	0.22	0.47
11	1	2	1	0.47	0.10	0.65	42	3	1		0.52	0.35	0.40
13	1	4		0.28	0.60	0.31	43	3	4		0.28	0.65	0.60
15	1	1		0.32	0.28	0.68	44	3	3	2	0.37	0.60	0.41
16	1	1		0.21	0.26	0.64	46	3	2		0.48	0.41	0.54
17	1	3		0.32	0.18	0.85	47	3	1		0.31	0.79	0.31
18	1	3		0.32	0.29	0.46	48	3	3	2	0.37	0.48	0.21
19	1	3	2	0.57	0.33	0.27	50	3	3		0.33	0.65	0.67
21	2	4		0.43	0.60	0.28	52	3	2	1	0.36	0.68	0.19
22	2	1		0.18	0.23	0.70	53	3	4		0.30	0.79	0.42
23	2	4		0.27	0.13	0.42	54	3	2		0.55	0.90	0.43
25	2	1		0.35	0.33	0.18	56	3	4		0.33	0.92	0.34
26	2	3	1	0.38	0.10	0.73	57	3	3	2	0.40	0.61	0.54
28	2	2		0.49	0.35	0.30	58	3	2		0.41	0.79	0.60
29	2	2		0.42	0.52	0.66	59	3	2		0.55	0.82	0.39
30	2	1		0.16	0.23	0.19							

Mean Item-Total Corr.: 0.37 Mean p-Value: 0.46

**Table 82. 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		
5		1	3	2	0.56	36.84	38.94	23.59			0.64	0.43
10		1	1		0.64	67.36	16.81	8.39	4.77		2.66	0.16
12		1	1		0.61	26.23	42.48	28.92			2.37	0.50
14		1	4	1	0.63	55.41	31.09	4.82	6.72		1.96	0.20
20		1	2	1	0.78	44.51	18.34	16.02	11.22	6.19	3.71	0.27
24		2	2		0.64	64.65	11.80	19.01			4.54	0.25
27		2	3		0.66	58.32	19.99	3.38	16.60		1.72	0.26
31		2	3		0.32	13.84	37.86	47.22			1.08	0.66
34		2	2	1	0.56	7.75	23.23	42.42	25.32		1.28	0.61
40		2	3	1	0.68	5.48	39.16	38.35	7.18	8.49	1.34	0.43
45		3	2	1	0.58	33.29	42.77	18.92			5.02	0.40
49		3	2	1	0.68	49.59	22.90	6.04	18.36		3.11	0.30
51		3	4		0.70	55.15	26.12	12.00			6.73	0.25
55		3	4		0.61	27.28	54.62	14.09	2.36		1.66	0.30
60		3	4		0.71	32.43	29.07	12.78	13.22	7.59	4.92	0.31

Mean Item-Total Corr.: 0.62 Mean p-Value: 0.36

**Table 83. 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	3	5	0.27	0.08	0.25	45	2	4	6	0.43	0.06	0.84
2	1	3	5	0.26	0.06	0.52	46	2	1	1	0.26	0.10	0.52
3	1	3	5	0.22	0.13	0.41	48	2	4	6	0.22	0.19	0.44
4	1	3	5	0.45	0.05	0.78	49	2	3		0.34	0.18	0.70
5	1	1	1	0.43	0.06	0.43	50	2	2	4	0.35	0.24	0.40
6	1	1	2	0.42	0.19	0.79	51	2	2	4	0.43	0.42	0.31
8	1	2	4	0.24	0.08	0.37	53	2	2	4	0.51	0.15	0.58
9	1	2	4	0.41	0.11	0.61	54	2	1	1	0.42	0.12	0.82
10	1	2	4	0.37	0.24	0.62	55	3	3	5	0.35	0.15	0.59
11*	1	1		0.02	0.26	0.15	56	3	3	5	0.35	0.11	0.48
12	1	2		0.29	0.06	0.39	57	3	1	1	0.34	0.12	0.41
13	1	2		0.50	0.10	0.60	58	3	1	2	0.49	0.09	0.64
14	1	4		0.31	0.07	0.37	59	3	4	6	0.27	0.19	0.54
15	1	4	6	0.23	0.16	0.53	61	3	3		0.36	0.14	0.61
16	1	4	6	0.30	0.20	0.53	62	3	1	2	0.42	0.25	0.75
18	1	2	4	0.25	0.10	0.40	63	3	1		0.45	0.10	0.71
19	1	3	5	0.43	0.18	0.69	65	3	4	6	0.36	0.15	0.81
20	1	1	2	0.40	0.12	0.69	66	3	4	6	0.21	0.19	0.26
21	1	3		0.25	0.06	0.32	67	3	1		0.36	0.28	0.71
28	2	2		0.10	0.09	0.52	69	3	2		0.31	0.27	0.41
30	2	3	5	0.33	0.11	0.46	70	3	4	6	0.46	0.34	0.58
32	2	4	6	0.20	0.09	0.18	71	3	4		0.26	0.41	0.40
33	2	1	2	0.46	0.18	0.75	72	3	2	4	0.38	0.28	0.59
35	2	3		0.35	0.22	0.39	73	3	4		0.53	0.28	0.81
37	2	3	5	0.27	0.12	0.29	75	3	1	2	0.49	0.17	0.73
38	2	1	1	0.38	0.15	0.77	76	3	4		0.36	0.35	0.38
39	2	1		0.15	0.22	0.42	77	3	2	4	0.31	0.27	0.65
41	2	1	2	0.42	0.09	0.88	79	3	3		0.52	0.12	0.63
42	2	4		0.03	0.13	0.41	81	3	3	5	0.29	0.16	0.55
43	2	1	1	0.27	0.28	0.36	83	3	2		0.31	0.55	0.49

Mean Item-Total Corr.: 0.34 Mean p-Value: 0.54

\*Item removed from calibration.

**Table 84. 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		
7		1	4	6	0.37	73.42	23.61				2.97	0.24
17		1	3	5	0.57	38.45	31.98	20.50			9.07	0.36
22		1	1	2	0.61	14.41	13.49	16.15	22.53	31.45	1.97	0.60
23		1	1	1	0.48	36.75	19.03	39.89			4.33	0.49
24		1	1	1	0.56	27.59	36.63	30.26			5.52	0.49
25		1	1	1	0.30	59.07	36.09				4.84	0.36
26		1	1	2	0.39	63.32	31.66				5.02	0.32
27		1	1	2	0.29	62.87	33.32				3.80	0.33
29		2	1	1	0.51	28.91	65.43				5.67	0.65
31		2	1	1	0.44	21.13	46.65	28.11			4.12	0.51
34		2	3		0.29	38.19	59.44				2.37	0.59
36		2	1		0.36	53.23	31.24	10.04			5.49	0.26
40		2	4	6	0.53	32.08	40.34	26.06			1.52	0.46
44		2	2	4	0.58	48.01	26.49	18.27			7.22	0.32
47		2	1	1	0.46	6.67	24.69	65.27			3.37	0.78
52		2	2		0.46	71.84	16.34	7.41			4.40	0.16
60		3	2		0.56	39.77	38.12	20.25			1.86	0.39
64		3	4		0.46	47.76	48.68				3.56	0.49
68		3	4		0.50	43.66	37.12	16.52			2.69	0.35
74		3	1	2	0.35	25.35	33.23	39.43			1.99	0.56
78		3	1	2	0.57	9.47	16.14	71.92			2.47	0.80
80		3	3	5	0.42	67.74	15.90	1.76			14.6	0.10
82		3	1	2	0.51	31.92	64.06				4.02	0.64

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.45

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

Item	a	b	c	Fit-Z
1	1.23847	-1.8800	0.0516	9.11
2	0.87960	-1.1227	0.1001	8.55
3	0.61732	-0.8076	0.1132	4.89
4	0.87895	-1.7204	0.3179	3.67
6	0.58619	1.1806	0.2735	7.10
7	0.88591	-1.0431	0.1838	16.85
8	0.41720	-0.6857	0.2036	15.93
9	0.84382	-0.0713	0.4579	11.21
10	0.66109	1.6217	0.2561	20.33
11	1.04535	-1.7668	0.0568	7.32
12	0.97034	-1.0283	0.1628	11.17
14	0.87252	1.0414	0.2579	24.86
15	0.46484	-1.3931	0.2000	30.67
17	0.90710	-1.6842	0.1722	15.62
18	1.03946	0.5526	0.1963	70.19
20	0.71387	-1.1767	0.1104	7.43
21	0.98280	-1.9685	0.0487	10.88
24	0.33351	0.0966	0.0787	2.10
25	0.76057	-0.4807	0.2122	8.75
26	0.71164	-0.5129	0.1526	5.04
27	0.95071	-0.3236	0.1424	14.09
29	0.43755	-0.9738	0.1722	2.46
30	0.97565	-0.6468	0.2091	9.40
31	1.13777	-0.9722	0.2791	23.29
32	0.71263	-2.1389	0.1722	99.01
33	0.74999	-0.6585	0.2117	4.63
34	1.02981	-1.5379	0.0966	10.21
35	0.71040	-0.5021	0.2028	8.25
36	0.44005	-0.5835	0.2000	33.04
38	1.11417	0.9648	0.2428	36.55
39	1.15363	-1.4980	0.1988	5.33
40	0.61435	-0.0015	0.3700	18.10

M1=59.6268, M2=569.4056, N=48275, Critical Z=128.73

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.64466	-1.4789	-0.6683	2.5924		14.00
13		0.83320	-1.6131	-0.4245	1.4460		13.69
16		0.52075	-0.6424	0.1386	2.0463		152.64
19		0.53399	-0.6342	-0.3922			218.89
22		0.73486	-0.8278	-0.0731			48.72
23		0.43815	0.7649	1.3891			15.72
28		0.85366	-1.7698	0.2948	2.2500		45.06
37		1.01639	-1.6674	0.4893			12.12

M1=59.6268, M2=569.4056, N=48275, Critical Z=128.73

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

Item	a	b	c	Fit-Z
3	0.93745	1.2845	0.1122	0.46
4	0.34006	-0.7786	0.2000	2.84
5	0.46652	1.8242	0.1691	1.76
6	0.97645	1.6655	0.1508	-0.78
7	0.67079	1.5778	0.1390	-0.65
9	0.69928	0.4300	0.2000	-0.37
10	0.50358	-0.1872	0.2000	2.94
11	0.68534	-0.4401	0.2000	0.21
12	0.53662	0.2077	0.1659	0.37
13	0.91829	1.1092	0.1724	-0.13
14	0.18065	3.9038	0.2000	0.93
15	0.98753	-0.9296	0.2000	-0.94
16	0.89134	-1.3004	0.2000	-0.73
18	0.64552	-0.8697	0.2000	1.11
19	1.00044	-0.8954	0.2000	-1.03
20	0.91870	-0.5557	0.2000	1.11
21	1.54670	-1.9758	0.2000	-0.41
22	0.91119	-0.1558	0.3626	-0.72
23	1.41577	-1.4183	0.2000	-0.52
24	0.68224	-1.4662	0.2000	-0.18
27	0.67958	-1.9677	0.2000	1.36
28	0.85301	-0.8690	0.1528	0.09
29	0.59387	-1.1204	0.2000	1.68
30	1.06614	0.3737	0.2521	0.60
31	1.01174	0.0811	0.2791	1.86
33	0.64071	-0.1927	0.2000	-0.03
34	1.01441	0.9990	0.3235	0.35
35	0.27636	3.5401	0.2294	-0.83
37	1.28936	-0.8824	0.1173	-0.10
38	0.73287	-0.3789	0.2000	-0.77
39	0.89423	-0.1471	0.2177	0.46
40	0.69073	-0.0368	0.1881	-0.03

M1=39.2941, M2=528.4950, N=1349, Critical Z=3.60

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.50984	0.7846	-1.0093	-0.3516		6.00
2		0.75468	0.6805	-0.4074	-1.5945		-0.71
8		0.96815	-0.6878	-0.3734			1.66
17		0.65207	-0.5415	-0.4347	0.1401		0.52
25		1.11052	-1.7454	-0.9812			-0.05
26		0.54739	0.6116	0.0062			3.42
32		0.71939	-0.5830	0.3039	1.8817		1.12
36		1.14170	-1.0634	-0.3895			0.98

M1=39.2941, M2=528.4950, N=1349, Critical Z=3.60



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

Item	a	b	c	Fit-Z
2	0.94359	-1.5727	0.2521	3.60
3	0.98061	-0.8612	0.1898	4.87
4	1.03872	0.4440	0.4805	20.62
5	0.99685	-0.9381	0.1991	7.76
6	1.19120	-1.0070	0.3564	12.44
7	0.90210	-1.2254	0.3803	6.37
8	1.40747	-1.4776	0.2869	3.54
9	1.04450	-1.2627	0.2926	7.07
10	0.82019	0.0739	0.1600	17.41
11	0.51379	-1.4586	0.2349	13.83
12	0.73090	-1.4049	0.2000	2.22
13	0.78772	0.6413	0.1276	16.62
15	0.89983	-0.4713	0.1523	6.09
16	0.85937	-2.1328	0.2000	1.55
17	0.97517	-0.2767	0.2493	9.23
18	0.83639	-0.6987	0.2817	12.83
19	0.90887	-0.5704	0.3495	20.75
20	0.91905	-1.0395	0.2620	5.74
21	0.85872	-2.0533	0.2000	5.92
22	0.75600	-1.6934	0.2000	10.10
23	0.72206	-1.4943	0.2000	0.70
24	1.07363	-0.9301	0.2864	5.11
25	1.06751	-1.1712	0.3871	6.28
26	0.80700	-0.7435	0.2860	3.85
27	0.64303	0.4509	0.2790	13.17
29	0.99220	-1.3311	0.1621	1.64
30	0.85965	-2.2318	0.2000	2.05
31	0.88906	-1.6137	0.1647	0.35
32	1.04575	-1.6327	0.2942	5.90
33	0.98842	-1.9036	0.2815	1.11
34	0.57466	-0.6563	0.0815	105.87
35	1.53375	-0.9025	0.1605	14.13
36	1.19643	-0.9312	0.2163	34.07
37	1.54919	-0.9798	0.2522	12.63
38	1.62370	-1.1134	0.2117	24.67

M1=43.5948, M2=471.1656, N=52186, Critical Z=139.16

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
1	A	1.31231	-2.4050				0.03
1	B	1.95413	-2.1098				4.40
1	C	1.55845	-2.0438				75.27
1	D	1.23524	-1.1290				1.04
1	E	1.08258	-1.4263				13.09
1	F	1.64321	-1.7175				3.92
14	A	1.19942	-4.1411	2.1764			70.86
14	B	1.80375	-4.9131				19.03
14	C	1.65491	-2.4531				16.20
14	D	1.83724	-4.0879				9.65
28	A	1.20037	-4.5390	1.9955			51.92
28	B	1.74162	-5.2860				7.89
28	C	1.69072	-1.9131				11.17
28	D	1.75752	-3.8227				5.95
39	A	1.49020	-4.5219	3.3165			35.90
39	B	1.63280	-4.3540				6.78
39	C	1.50976	-1.1670				13.92
39	D	1.66918	-3.0728				7.74

M1=43.5948, M2=471.1656, N=52186, Critical Z=139.16

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

Item	a	b	c	Fit-Z
001	0.72636	-1.6356	0.2000	-0.42
002	0.69865	-1.6673	0.2000	-0.09
003	0.79960	-1.7859	0.2000	0.18
005	0.56896	-0.1673	0.2000	0.38
006	0.67890	-1.2497	0.2000	5.31
007	0.57375	-0.7923	0.2000	0.07
008	0.69572	0.3141	0.1901	-0.75
009	0.88029	0.3406	0.2014	0.18
010	0.86365	-2.3712	0.2000	1.26
011	0.71952	-1.5266	0.2000	-0.21
012	0.98466	-1.9949	0.2000	0.89
013	0.55883	-1.1144	0.2000	1.64
014	0.70850	-1.0884	0.2000	-0.06
015	0.80286	-0.9017	0.2000	-1.51
017	0.95328	-0.8250	0.2000	0.81
018	1.35829	1.9369	0.1836	0.91
019	0.98987	1.7456	0.1935	0.41
020	0.76280	-0.3028	0.2000	-0.26
021	0.56024	-0.8516	0.2000	-0.21
022	0.91660	0.1488	0.2061	1.56
023	0.72320	-0.7483	0.2000	2.07
024	0.64572	-0.6175	0.2000	1.94
025	0.74924	-1.0085	0.2000	0.38
026	0.77749	1.0288	0.1889	-0.29
028	0.60282	-0.5751	0.1929	0.18
029	1.09060	-1.4228	0.2000	-0.21
030	0.96215	-1.3955	0.2000	-0.72
031	0.91521	-0.7958	0.2000	-0.66
032	0.63928	-0.0727	0.2000	-0.45
033	0.83169	-0.2761	0.1889	-0.32
034	1.15607	-1.7872	0.2000	-0.91
035	1.03792	-1.8187	0.2000	-1.08
036	0.84772	-0.4358	0.2000	2.11
037	0.59765	0.3643	0.2000	-0.60
038	0.56619	-1.0763	0.2000	-0.13

2008 pre-equated M1=64.1898, M2=501.4712, N=1471, Critical Z=3.92

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
004	A	1.08595	-1.7175				-1.12
004	B	1.10075	1.3937				2.66
004	C	1.05723	-0.8095				0.68
004	D	1.07840	-0.7179				0.51
004	E	1.14458	-0.1152				0.73
004	F	0.91387	-1.5841				0.33
016	A	1.05874	-2.6250	1.2813			-0.51
016	B	1.16766	-0.7295				0.23
016	C	1.84093	-1.9080				2.70
016	D	1.68899	-3.1443				-0.99
027	A	1.41742	-1.5381	1.7595			2.24
027	B	1.58094	0.1036				0.50
027	C	2.23694	-1.1389				-0.68
027	D	1.98233	-2.0143				-0.39
039	A	1.06278	-1.8229	1.4828			-0.62
039	B	1.06040	0.4272				-0.82
039	C	1.63350	-0.8728				0.40
039	D	1.23269	-2.0762				0.39

2008 pre-equated M1=64.1898, M2=501.4712, N=1471, Critical Z=3.92

**Table 93. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 3 English Mathematics**

Item	a	b	c	Fit-Z
1	0.60669	-1.8890	0.1428	3.54
2	0.66166	-0.4882	0.3815	11.45
3	0.65225	-0.8202	0.0944	3.48
4	0.91639	-1.5165	0.1919	2.37
6	0.43204	-2.7541	0.2000	12.94
7	0.60485	-3.9800	0.2000	3.75
8	0.90760	-0.2122	0.3339	5.43
10	0.65583	-2.2281	0.1554	5.07
11	0.84487	-0.4439	0.1407	5.26
12	0.85484	-0.9978	0.2175	1.79
14	0.75770	-3.1989	0.2000	5.11
15	0.74569	-1.7095	0.2000	40.64
16	0.72620	-0.1461	0.0449	3.17
17	0.97048	-0.3304	0.0917	5.83
18	1.04769	-0.7644	0.1749	5.52
19	0.48515	-0.3946	0.3318	1.60
21	0.65044	-1.6621	0.2000	1.22
22	0.95521	1.1469	0.2104	16.02
23	0.77598	-0.5453	0.1749	1.47
24	0.57916	-0.6691	0.2000	-1.23
25	0.93490	-0.1362	0.1589	4.81
26	0.67004	-1.3512	0.0880	5.37
27	0.89325	-0.1168	0.0302	14.77
28	0.66593	-2.9654	0.2000	6.86
29	0.71997	-2.9697	0.2000	6.00
30	0.93792	-2.1760	0.2000	4.75
32	0.90534	-1.7767	0.1564	4.11
33	0.71163	-1.9748	0.2000	6.21
35	0.96163	-1.9531	0.2000	11.31
36	1.07947	-0.7427	0.0750	23.21
39	0.76814	-1.3368	0.0822	1.53

M1=73.6569, M2=467.5763, N=53790, Critical Z=143.44

**Table 94. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 3 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.82645	1.1960	-0.9097			14.32
9		0.98089	0.5706	-1.1580			22.02
13		1.07615	-0.7032	-0.1914			28.67
20		0.63934	-0.6007	0.3255	0.9076		66.44
31		1.03107	-0.2620	-1.1826			17.93
34		1.19204	-1.1730	0.1393			72.67
38		0.89604	-2.0776	-0.8250			7.36
40		1.10816	-3.8541	-0.9964	0.2178		37.26

M1=73.6569, M2=467.5763, N=53790, Critical Z=143.44

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

Item	a	b	c	Fit-Z
4	0.63344	-2.9082	0.2000	13.53
6	1.08973	0.1096	0.1288	10.11
7	0.85265	-0.7104	0.1851	3.20
8	0.50359	-3.2360	0.2000	30.69
9	0.66113	-0.0203	0.1976	5.12
10	0.56829	-1.8346	0.1055	9.99
11	0.53132	-0.5400	0.2000	35.75
12	0.99351	-0.2053	0.1348	25.67
13	1.12245	-1.3467	0.2450	2.09
14	0.66031	-2.0128	0.2370	37.88
15	0.76291	0.3167	0.2491	9.12
16	0.90110	-0.2580	0.1997	6.31
19	0.62891	-1.2410	0.1889	31.60
20	0.87849	-0.1747	0.2289	4.01
21	0.76533	-1.0784	0.2364	6.42
22	0.41100	-0.7630	0.2000	2.58
24	1.21728	0.2402	0.2315	15.15
25	1.15581	-1.8644	0.2401	4.18
26	0.77203	-1.3631	0.3114	12.81
27	0.90432	-0.1347	0.2517	8.13
28	1.13659	-0.3240	0.1708	23.77
31	0.39469	-0.2053	0.1278	8.17
32	0.68286	-1.2484	0.1535	0.19
33	0.78834	-1.1536	0.1698	1.55
34	0.89901	-0.9108	0.1599	7.22
35	0.86187	0.9437	0.2841	8.49
36	0.64068	-0.8788	0.1547	8.09
37	1.04978	-0.4002	0.2183	3.99
38	0.65767	-2.0091	0.1075	14.66
39	0.99861	1.5663	0.1715	10.29
41	1.29844	-0.4755	0.2545	7.88
42	0.78166	-0.9257	0.2000	18.18
43	0.89815	0.5448	0.1702	5.64
44	0.46736	-1.3350	0.2000	98.59
46	0.39590	-1.2483	0.1188	17.85
47	0.73016	-1.7311	0.1889	7.49
49	0.73827	0.7192	0.1321	5.27
50	0.85782	-0.3499	0.1908	15.21
94	0.76459	-1.5280	0.1889	9.97
97	0.49630	-1.5618	0.2000	1.03
98	0.40664	-1.0218	0.2000	112.91
99	0.53502	-1.4138	0.2000	31.12
100	0.74157	-2.6104	0.2000	12.82
101	0.95488	0.2352	0.2117	8.01
102	1.21222	-0.7922	0.3145	3.79
103	0.49694	2.2528	0.3517	30.26
104	0.82348	-0.3176	0.2932	1.75
105	0.91130	-0.2863	0.1993	26.61
106	1.00109	-1.1487	0.2340	3.68
108	0.87401	0.5768	0.1827	14.55

continued

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

Item	a	b	c	Fit-Z
110	1.40409	-1.1441	0.1899	3.62
112	0.95546	-0.8848	0.1574	2.94
113	1.56649	-0.8941	0.3038	3.59
114	0.83882	-0.9636	0.1619	8.80
115	1.60293	1.6208	0.1860	51.44
116	0.91330	-0.2791	0.1797	3.35

M1=55.1785, M2=596.1134, N=52493, Critical Z=139.98

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		1.04621	-1.1338	-0.3470			31.46
17		0.60378	-1.0016	0.0530	1.6099		138.43
18		0.55953	0.2300	0.3318	0.4045		117.47
23		0.79718	-0.4749	1.2898			11.68
29		0.57405	-1.0187	-0.6086			34.13
30		0.47516	0.1311	1.6197			12.19
40		0.76563	-1.3284	0.0650	2.3449		62.07
45		0.93905	0.6427	2.2057			17.81
48		0.61560	-0.8449	-1.0019	0.8615	-0.1758	20.77
95		1.35599	-2.3185	-1.4285			8.53
96		0.93648	-2.1294	0.4122			51.61
107		0.57289	0.6449	-1.0900	0.8444		22.42
109		0.80049	-0.8896	0.0896	1.6066		32.00
111		1.21852	-0.5856	1.6454			101.80

M1=55.1785, M2=596.1134, N=52493, Critical Z=139.98

**Table 97. 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 97. 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 pre-equated M1= 36.1958; M2= 514.4683, N=264, Critical Z=0.70

**Table 98. 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 pre-equated M1= 36.1958; M2= 514.4683, N=264, Critical Z=0.70

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

Item	a	b	c	Fit-Z
52	0.48517	-1.9237	0.2000	2.22
53	0.99439	-1.7668	0.2321	12.26
54	0.88219	-1.9990	0.1867	13.41
55	0.76821	-2.2001	0.1318	3.85
56	0.90964	-1.5646	0.1067	3.92
57	0.82477	-0.5103	0.3925	3.76
58	0.68067	0.3934	0.1748	5.41
59	0.56866	-2.5258	0.2000	3.41
60	0.59870	-2.1753	0.1643	3.02
61	0.53074	-1.3433	0.0931	0.13
62	0.60186	-0.6288	0.2000	50.53
63	1.15407	-1.2475	0.1564	5.89
65	0.69480	-1.5189	0.0914	3.64
66	0.56746	-0.4505	0.2000	14.43
67	0.53780	-0.0664	0.1396	11.94
68	0.86438	-1.1778	0.1045	4.44
69	0.68291	-1.2803	0.2000	0.71
70	1.01962	-1.2886	0.1250	2.53
71	0.47854	-1.4467	0.2000	21.05
72	0.92805	-0.7480	0.1599	14.03
73	1.34308	-1.9756	0.2409	10.77
74	0.70109	0.3268	0.1908	15.61
75	0.79317	-0.2264	0.1527	14.73
76	1.04199	-0.9916	0.1723	6.36
77	1.38260	-1.1117	0.2684	13.20
78	1.39092	-1.0748	0.2280	13.14
79	0.98552	-1.5769	0.1226	54.05
80	0.74341	-1.8575	0.0877	6.44
81	0.92820	-1.3379	0.1441	17.33
82	1.17906	-1.0899	0.2689	3.22
83	1.37347	-0.9594	0.2081	18.45
84	1.24819	-1.5430	0.2334	3.16
85	1.09310	-1.4907	0.1246	3.85
86	0.99594	-0.4610	0.2124	18.30
87	0.80320	-0.6823	0.1130	0.37
88	0.25793	-0.2911	0.2000	41.84
89	1.46740	-1.2146	0.2045	6.45
90	0.83557	-0.1678	0.1223	9.81
91	0.89519	-1.3811	0.1475	6.10
92	0.71445	-1.2676	0.0818	8.67

M1=45.5936, M2=488.4863, N=51606, Critical Z=137.62

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.62581	-4.0775				4.20
2	A	0.81880	-1.5902				23.18
2	B	1.22459	-2.0088				15.81
2	C	0.64169	-0.2075				44.40
2	D	0.82959	-0.8670				40.54
2	E	1.13966	0.2122				6.77
2	F	0.93307	-3.0747				4.22
3	A	0.82598	-2.2081	-2.5482	-0.0907	1.3848	202.29
3	B	0.93601	-4.6964	-2.6491	-0.0672	1.4726	106.40
3	C	1.53646	-6.1404	-3.1249			26.97
51		0.65043	-1.0499	-2.1378	-0.1229	2.0941	194.28
64		1.01950	-3.1875	-2.7474	-0.0587	3.1509	62.51
93		1.05693	-2.9773	-2.0192	0.8886	3.2858	161.88

M1=45.5936, M2=488.4863, N=51606, Critical Z=137.62

**Table 101. 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 102. 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 pre-equated M1= 33.0014; M2= 508.4550, N=264, Critical Z=0.70

**Table 103. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 4 English Mathematics**

Item	a	b	c	Fit-Z
1	0.56379	-2.5926	0.2000	3.99
2	0.95242	-0.3511	0.3106	3.19
3	0.95066	-0.2918	0.2216	8.72
4	0.98950	-1.7735	0.1213	8.17
6	0.60442	-0.0850	0.2883	1.07
8	1.21632	0.2957	0.1015	9.62
9	0.58330	-2.3196	0.1877	2.18
11	0.45407	-0.1653	0.1182	3.52
12	0.62188	-2.7437	0.2000	3.84
13	0.25965	-1.3841	0.2000	0.30
15	1.02790	0.0895	0.2467	6.45
16	0.68739	-0.5221	0.0603	1.36
17	0.78209	-1.2238	0.1338	0.88
18	0.52691	-0.9229	0.2000	14.51
19	0.60853	-3.2308	0.2000	2.91
20	0.92122	-0.7069	0.1444	5.05
21	0.93119	-0.0903	0.2677	5.03
22	0.92181	-1.6646	0.1822	1.34
24	0.83397	-0.8070	0.0313	12.81
25	0.70186	-2.4346	0.2000	30.98
26	0.75045	0.4261	0.1522	2.61
27	0.72697	0.0479	0.2163	7.48
29	0.45782	-2.3247	0.2000	2.96
30	0.92461	-2.6305	0.2000	4.65
32	0.99266	-0.9354	0.1134	0.16
33	0.44212	-2.2107	0.2000	12.92
34	0.59942	-0.1242	0.0707	4.49
35	0.57841	-0.2293	0.3908	5.14
37	1.16570	-0.0245	0.1596	6.24
39	1.30471	-0.2599	0.4800	4.05
40	0.80525	-2.1519	0.2000	7.48
41	0.88839	-0.4865	0.2094	1.74
42	0.51564	-2.3446	0.2000	37.56
43	1.07568	-1.1477	0.1760	0.96
44	1.23077	0.1868	0.2505	6.43
45	0.52401	-1.9242	0.1313	-0.09
47	1.04707	-0.2349	0.1237	4.69
48	1.13024	-0.8829	0.1867	0.42
49	0.41101	-4.4056	0.2000	6.27
51	1.07275	-0.5723	0.3386	4.47
52	0.88270	0.1899	0.1528	9.90
53	1.01146	-0.9979	0.2252	0.80
54	0.91403	-3.2480	0.2000	5.65
55	0.91887	-0.0398	0.1449	3.08
57	0.89832	-0.0317	0.2217	7.25
58	0.92618	0.2436	0.1370	13.36
60	0.92039	-0.6856	0.2197	6.46

continued

**Table 103. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 English Mathematics (Concluded)**

Item	a	b	c	Fit-Z
61	0.79198	-1.7867	0.1776	3.34
62	1.22866	-1.5273	0.0993	9.42
64	0.82330	-0.7649	0.1475	3.09
65	0.67139	-1.9982	0.2000	8.01
66	0.86998	-2.3776	0.2000	11.71
67	1.15117	-0.6999	0.2039	0.98
68	1.44583	-0.3867	0.2792	4.87

M1=68.4674, M2=501.5551, N=54200, Critical Z=144.53

**Table 104. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		1.21671	-2.4910	-0.9856			120.84
7		0.75399	-2.0284	-1.1821	-0.2455		17.76
10		0.71720	0.0048	-0.2093			148.57
14		0.74299	-2.8046	-1.5466	-1.6644		12.66
23		0.55895	-0.3785	-1.4408	-1.7739	1.0661	50.93
28		0.62252	-1.4595	-0.7245			78.67
31		0.62243	-1.4846	-0.4995	-2.0669		29.93
36		1.09135	-0.3184	-1.0889	0.9656		46.75
38		1.26962	0.2729	-0.5272			13.87
50		0.71125	-2.0354	1.7102			29.83
56		0.81023	-1.1923	-0.6523	0.0902		4.11
59		0.97981	-0.8964	-1.9580			2.38
63		0.72177	-0.6148	-0.0277	-0.0522		50.66
69		0.55910	0.0636	-1.3483	0.3191	-1.4007	82.07

M1=68.4674, M2=501.5551, N=54200, Critical Z=144.53

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

Item	a	b	c	Fit-Z
4	0.60599	-0.0028	0.1878	63.84
6	0.86612	-1.9147	0.2000	42.02
7	1.03238	-0.1177	0.2318	4.55
9	0.59057	-0.0655	0.2389	3.56
10	0.85900	0.6749	0.3478	35.43
11	0.24561	0.4477	0.2000	16.09
12	0.80639	-1.4540	0.1064	1.48
13	0.39547	-0.8293	0.2000	139.27
15	1.05941	-2.0154	0.2000	6.82
16	0.97531	0.1804	0.2094	7.56
19	1.15253	-0.7357	0.1863	5.34
20	0.28900	0.9501	0.2000	141.43
21	1.11748	0.7353	0.2295	11.94
22	0.89670	-0.9151	0.2014	17.05
23	1.09646	0.0239	0.3256	6.02
24	0.73950	-1.0180	0.0662	85.85
27	0.63967	-0.9759	0.2093	3.77
29	1.32479	0.2695	0.2785	11.47
30	0.62407	0.0128	0.2708	5.47
31	0.69813	-1.4693	0.1890	1.75
32	0.81313	0.3819	0.3141	13.99
33	0.64050	-1.0729	0.2155	10.74
34	0.84461	-0.8410	0.2023	0.28
35	0.68329	-2.4929	0.2000	5.29
36	0.90840	1.0193	0.1776	10.08
38	0.53442	-1.0717	0.2270	1.54
40	1.12627	-1.2838	0.1375	0.33
41	0.70112	-1.1447	0.2103	2.54
42	0.55261	-0.6085	0.3298	17.42
43	0.90041	-1.1413	0.1594	30.57
44	1.07220	-0.1701	0.1170	14.68
45	0.38040	0.8552	0.1266	21.89
46	0.49198	0.6242	0.2619	20.51
47	1.21240	0.6484	0.3507	81.02
48	0.63685	-0.0264	0.1966	4.04
49	0.56867	0.0293	0.1974	1.79
93	1.04408	-1.0604	0.1725	4.19
94	0.76249	-2.2577	0.1878	20.48
95	0.87418	-0.1930	0.2783	3.75
96	0.96133	-1.2367	0.1584	1.96
97	0.59502	-1.8474	0.1322	7.82
100	0.53122	-0.6633	0.1878	11.43
101	0.77064	0.4659	0.3598	1.19
102	0.79653	-0.6933	0.1272	3.78
103	0.76534	-1.7617	0.1878	15.63
106	0.64594	-1.1564	0.1878	139.08
107	0.52891	-2.4123	0.0000	24.11

continued



**Table 105. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Reading (Concluded)**

Item	a	b	c	Fit-Z
108	0.70922	-2.5690	0.2000	16.68
109	0.95789	-0.1350	0.2411	10.74
110	1.06975	-1.4246	0.2534	0.76
111	0.71170	-2.6012	0.1878	5.29
112	0.71843	-1.1809	0.1081	1.34
113	0.76185	-1.0755	0.2092	0.84
114	1.04284	-1.4667	0.2090	1.39
115	0.83342	-1.2348	0.1733	6.00

M1=56.3239, M2=625.5153, N=51842, Critical Z=138.25

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
8		1.08378	-1.1335	0.2358	2.7727		109.41
14		0.57169	-1.7092	-0.1442	1.2764		224.75
17		0.78114	-1.2673	2.7642			83.04
18		0.77785	-0.2990	-0.6781	-1.4698		37.64
25		0.98203	-0.9046	-0.2513			11.41
26		0.95889	0.4783	-0.8045			43.75
28		0.37411	1.2640	-1.2541	-0.2264		30.53
37		0.70215	-1.5662	0.0824	1.7822		85.57
39		1.07967	-0.6692	0.9449	2.0997		91.95
50		0.71064	-1.6371	-0.2345			6.76
98		0.88808	-0.2536	-0.7473			43.44
99		0.95175	-0.9910	0.1403	1.5385		51.02
104		1.34565	-2.8012	-2.2996			12.52
105		0.96254	-2.4561	-0.2610			39.36

M1=56.3239, M2=625.5153, N=51842, Critical Z=138.25

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

Item	a	b	c	Fit-Z
51	0.59165	1.8708	0.4092	3.20
52	0.82004	-1.7389	0.2000	20.85
53	1.00857	-1.4012	0.3018	4.75
55	0.69473	-0.8649	0.2000	1.13
56	1.25673	-1.7654	0.2484	7.20
57	0.71206	-1.8144	0.1038	1.76
58	0.81090	-0.5593	0.1830	2.13
59	0.89822	-1.5771	0.2000	2.80
60	0.36708	0.5256	0.2000	3.45
61	0.42162	-0.9064	0.2000	24.93
62	0.85333	-2.1482	0.2000	9.19
63	0.86410	-1.3053	0.1779	3.15
64	0.65914	-0.6571	0.1188	0.59
65	0.67330	-0.8037	0.1311	2.80
66	0.68280	-1.2814	0.1011	5.15
67	0.46365	-1.1060	0.2000	89.81
68	0.83944	-1.5450	0.2000	11.24
70	0.72797	0.1145	0.1564	5.35
71	0.88254	-0.4322	0.2296	7.71
72	0.47497	0.4102	0.1564	1.82
73	0.76438	-1.0315	0.1565	6.16
74	0.58125	-0.1727	0.1413	2.70
75	0.24596	0.6184	0.2000	100.46
76	0.63643	-1.4617	0.1871	73.72
77	1.31558	-1.1296	0.1748	14.70
78	0.62561	-0.9259	0.0964	2.21
79	1.31151	-1.2794	0.3380	7.83
80	1.16489	-1.0684	0.2168	3.98
81	0.92580	-0.3074	0.3030	7.35
82	1.05815	-0.9049	0.2069	3.06
83	0.97385	-1.0415	0.3016	4.94
84	1.03662	-0.2359	0.1789	10.03
85	0.44774	1.1991	0.2000	91.30
86	0.81335	-1.2454	0.1560	6.23
87	0.58302	-0.9789	0.2000	1.84
88	0.65223	-0.2080	0.1597	10.97
89	0.85809	-0.7939	0.2743	3.64
90	0.49026	-0.2120	0.1871	45.77
91	0.65293	-0.3756	0.1333	10.78

M1=48.2793, M2=513.2066, N=51016, Critical Z=136.04

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.77534	-4.9380				3.24
2	A	0.63959	0.0344				2.96
2	B	1.30622	0.4743				5.18
2	C	0.77474	-0.9016				19.64
2	D	0.70003	-0.5484				12.98
2	E	1.22924	-0.9870				1.94
2	F	0.97352	0.5193				15.58
3	A	0.47169	1.2091	-2.1889	-0.8694	1.1430	1129.92
3	B	1.20155	-5.6080	-3.1700	-1.1815	1.5485	35.74
3	C	1.70244	-7.0109	-3.7393			19.62
69		0.78340	-2.0345	-3.0514	-0.6785	1.7481	69.60
92		0.89305	-2.0053	-2.6309	0.2891	2.5628	274.84
116		0.90956	-2.5504	-3.1315	-0.2211	2.1634	59.84
M1=48.2793, M2=513.2066, N=51016, Critical Z=136.04							

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

Item	a	b	c	Fit-Z
1	0.46981	-2.2800	0.2000	41.75
2	1.41508	0.8283	0.2297	13.80
4	0.78261	-2.8357	0.2000	2.04
5	0.92232	-0.8868	0.3394	0.68
6	1.25707	-1.1604	0.2637	1.84
7	0.79336	0.0173	0.1397	5.14
8	0.86370	-0.0862	0.1208	10.60
10	0.86463	-1.2975	0.2000	2.67
12	0.74244	-2.0267	0.1227	2.67
13	0.63880	-2.1527	0.2000	6.34
14	0.92488	-1.1631	0.3126	4.25
16	0.81485	0.7164	0.0756	2.95
17	0.76033	-1.1077	0.1670	0.77
18	0.60241	0.4778	0.1353	1.98
19	0.96673	-0.3535	0.1795	1.22
20	0.70985	-1.5015	0.1296	0.72
21	1.43022	1.8996	0.4325	2.23
22	1.32749	-2.0600	0.1194	7.97
24	0.64421	-2.4044	0.2000	2.88
25	1.17855	0.5462	0.2631	4.42
26	0.90707	-0.7728	0.1548	-0.56
27	1.04396	-0.6384	0.4531	7.42
28	1.14088	-0.9205	0.0996	11.04
30	0.54821	-2.2282	0.2000	7.60
31	1.29243	-0.0458	0.0844	43.67
32	0.34931	-1.9263	0.2000	10.71
33	0.78855	-2.3421	0.2000	9.60
35	1.17562	1.1491	0.0319	26.23
36	0.92155	-0.4842	0.2184	3.56
38	1.55913	1.4353	0.1940	142.01
39	0.86359	-0.8600	0.1179	1.04
40	0.59227	-0.3813	0.2000	33.76
41	1.01572	-0.0362	0.1476	5.19
42	0.46947	-0.6287	0.0916	1.35
43	0.95021	-1.2691	0.1443	0.17
45	1.03890	-0.3552	0.0695	78.70
47	0.47450	-2.2612	0.2000	21.02
48	0.46219	2.5975	0.1233	8.89
49	0.93109	-2.9536	0.2000	18.81
50	0.92669	-0.6410	0.0576	13.77
51	1.02908	-0.8952	0.2279	2.77
53	0.65143	-0.5260	0.3462	2.27
55	0.79574	0.9409	0.0954	0.97
56	0.71230	-0.4109	0.2504	-0.54
58	0.95591	-0.2359	0.2090	15.49
59	0.70136	0.7607	0.2647	2.10
61	0.57599	1.6639	0.0784	0.23

continued

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

Item	a	b	c	Fit-Z
62	0.55531	-1.4755	0.2000	1.41
63	0.57130	-2.4169	0.2000	5.46
64	0.69840	-0.8563	0.0841	5.25
65	0.82497	-0.1513	0.3866	2.36
66	1.13264	-0.1342	0.1200	1.50
67	0.91805	-0.5424	0.1758	8.28
68	0.81111	0.3295	0.1814	0.70

M1=67.7134, M2=524.9465, N=53692, Critical Z=143.18

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
3		0.76733	-0.4086	-0.5985			93.73
9		1.35504	-5.0959	-0.1356	0.5120		13.33
15		0.87923	-1.0968	-0.1779	0.2138		77.89
23		0.89600	-0.8660	-0.8748	0.1602	0.2349	90.85
29		1.21238	-0.6917	-1.3565			6.35
34		0.63602	-0.8716	0.1485	-0.1835		39.54
37		1.20444	0.7217	-0.5202			19.61
44		0.66598	-0.5833	-1.1743	-0.7232		13.86
46		0.61063	-0.0991	0.3563	-0.8008	0.3793	82.51
52		0.82749	-0.9939	0.4678			296.05
54		0.77094	-1.8081	-1.1979	-0.4558		7.52
57		0.84632	-1.8133	-0.8204	0.3454		11.43
60		1.30177	-1.8025	1.2687			77.26
69		0.90800	-2.5594	-0.7664	-0.7729	1.8015	109.43

M1=67.7134, M2=524.9465, N=53692, Critical Z=143.18

**Table 111. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Science**

Item	a	b	c	Fit-Z
1	0.19178	-3.2226	0.2000	13.93
2	0.49603	-1.7689	0.2000	3.25
3	0.84681	0.6486	0.1988	7.17
4	0.69114	-0.0984	0.3637	4.11
5	0.91426	-1.5233	0.2756	5.14
6	0.57657	1.8048	0.2936	1.08
8	0.37712	-1.4237	0.2000	16.40
9	0.69281	-0.4536	0.0459	24.06
10	0.48333	-3.8723	0.2000	9.10
11	0.56729	2.4768	0.1275	0.94
12	1.05194	-1.4005	0.0919	8.10
13	1.13456	1.0649	0.1013	110.14
14	0.28132	-3.3839	0.2000	24.80
15	0.65796	0.0134	0.2179	4.25
16	0.71924	1.9165	0.1490	2.39
17	0.48733	-0.8248	0.1830	1.10
18	0.75912	-2.3755	0.2000	14.30
19	0.41514	2.8189	0.0414	2.48
20	1.06536	0.5428	0.1150	9.20
26	0.67746	-1.6662	0.2000	17.63
27	0.44877	-0.1678	0.0968	-0.83
28	0.45284	-1.0872	0.2000	5.27
30	1.02902	-0.1239	0.1361	27.10
31	0.46822	-0.4167	0.2000	13.88
32	0.59737	-1.4967	0.2000	3.35
34	0.31402	-3.2545	0.2000	29.33
35	0.61526	0.9471	0.0562	1.40
36	0.68162	-1.9684	0.2000	7.18
37	0.72669	-1.6344	0.2000	14.64
39	0.66973	-1.2204	0.0776	1.20
40	0.91266	-3.3904	0.2000	10.10
42	0.55530	-1.2930	0.2000	70.30
43	0.99101	-0.2197	0.2304	3.11
44	1.38376	-1.0213	0.2519	7.94
46	0.78123	-0.6754	0.1307	0.62
47	1.31311	-0.8932	0.2393	9.80
49	0.72145	-0.7123	0.1615	0.94
50	0.59478	-1.7468	0.2024	4.90
51	1.04536	-0.0226	0.4992	32.97
52	1.10071	-1.4175	0.2740	3.52
54	0.71216	-1.0683	0.2000	6.00
55	0.59307	-1.5563	0.2000	10.41
56	0.72253	-1.2813	0.1287	-0.21
58	0.48620	-0.4910	0.1161	27.69
59	0.80210	-0.1313	0.1758	1.81
60	1.10597	0.9297	0.2639	9.42
62	0.50261	-0.2323	0.1844	16.39
64	1.52684	-0.7141	0.1352	22.57

continued

**Table 111. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 English Science (Concluded)**

Item	a	b	c	Fit-Z
65	0.77296	-1.7654	0.2000	30.44
66	0.91028	-1.3025	0.2298	3.27
67	0.94812	-1.8533	0.1841	3.70
68	0.50954	-0.5995	0.2000	6.05
69	0.87854	-0.8411	0.4390	8.10
70	0.48372	-0.5046	0.2000	65.37
72	0.56120	-0.0429	0.1844	75.83
73	0.78463	0.5066	0.1820	5.18
74	1.02208	-0.2738	0.1304	6.69

M1=57.1303, M2=507.2130, N=53816, Critical Z=143.51

**Table 112 Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 English Science**

Item	Part	f	g1	g2	g3	g4	Fit-Z
7		0.62848	-0.1775	0.9496			18.22
21		1.17806	0.6681				49.08
22		1.15506	-1.1128				5.29
23		0.56522	-0.5782	0.2884			61.88
24		0.92958	0.2899				3.33
25		0.54306	-0.1318	-1.2842			11.92
29		0.63420	0.6009	0.2359			43.08
33		0.72306	1.7334	1.9159			20.42
38		1.03146	0.0940				20.06
45		1.05981	-1.4045	-0.1753			19.55
48		0.98037	-3.4884	-0.6889			10.40
53		1.13827	1.0242				9.20
57		0.76575	-0.2540				2.76
61		0.60725	-2.1778	-2.1509			15.98
63		1.23847	-2.3757	0.8795			63.60
71		0.87481	-1.1020	1.9484			121.62
75		0.68542	0.0713	1.4141			6.95

M1=57.1303, M2=507.2130, N=53816, Critical Z=143.51

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

Item	a	b	c	Fit-Z
5	1.18815	-2.4046	0.2000	32.32
7	0.91950	-1.6301	0.1711	8.32
8	0.57910	0.6248	0.3023	3.28
9	0.49399	-0.0276	0.2068	22.41
11	0.89514	0.4717	0.1495	5.68
12	1.06696	0.9247	0.2533	8.29
13	0.89643	-1.7942	0.2000	7.92
14	0.90463	-0.6642	0.2340	1.55
15	0.86872	2.4955	0.2802	2.44
16	0.69575	1.4973	0.1248	4.85
17	1.19393	-0.2316	0.1188	5.33
18	0.65328	0.5892	0.2207	6.63
19	0.32208	-2.3007	0.2000	28.54
22	0.34405	-0.1010	0.2000	81.97
23	1.43223	0.4695	0.1671	16.09
24	0.85252	1.1475	0.2370	21.71
25	0.87955	-0.7458	0.2018	8.34
26	0.86037	1.0158	0.1204	22.00
28	0.56470	-1.3426	0.2000	5.65
30	1.32842	0.0735	0.2858	6.90
31	0.63638	-0.2799	0.2482	3.58
32	0.75523	-1.6303	0.1316	10.22
34	1.05031	-1.0839	0.2994	4.79
35	0.59512	0.1103	0.2607	3.90
36	1.19296	-1.0960	0.2403	0.90
38	0.88065	-0.7045	0.1087	3.78
39	0.73524	-1.2607	0.2000	7.81
40	0.92830	-1.0486	0.1609	6.72
41	1.46686	-0.9273	0.2448	3.29
42	0.81118	-1.3012	0.0721	7.77
43	0.48513	-0.0097	0.1293	2.14
44	0.47315	-0.9662	0.2000	17.73
46	1.41345	-1.1021	0.1610	3.06
47	0.93732	-0.9343	0.2550	0.70
48	0.78080	-0.4963	0.3653	5.82
49	1.13897	-0.9130	0.1679	43.88
50	1.07841	-0.7322	0.2187	1.29
52	1.47704	-0.6744	0.2652	5.31
53	1.16896	-0.4252	0.2294	4.19
54	1.76471	0.1605	0.2055	45.99
55	1.00913	0.2680	0.2524	8.18
56	0.88659	-0.1741	0.1804	6.52
57	0.95478	0.0827	0.2202	4.55
58	1.05736	0.8271	0.1552	43.65
102	0.80039	0.9281	0.2064	5.52
104	0.60689	-0.1986	0.2000	74.99
105	0.96634	-0.8419	0.2055	3.76

continued



**Table 113. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 English Reading (Concluded)**

Item	a	b	c	Fit-Z
106	0.81710	-1.6245	0.2000	5.01
107	0.29020	-0.4882	0.1741	4.86
108	0.70775	-1.2325	0.0955	8.03
109	0.84960	1.1428	0.3137	5.99
110	0.72588	-0.6980	0.1769	0.91
112	0.42797	-1.0546	0.2000	16.96
113	1.08806	-0.9387	0.1629	6.90
114	0.56150	0.6996	0.1964	8.01
115	1.07470	-1.4765	0.1868	10.79

M1=56.3975, M2=632.3336, N=49283, Critical Z=131.42

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		1.06882	0.2432	1.5871			34.36
6		0.86865	-1.0723	1.2462	1.7121		36.03
10		0.97635	0.4650	0.8772			14.50
20		0.54731	-0.0805	-1.0616	-0.6119		8.62
21		0.81155	0.5483	0.7640			13.20
27		0.95139	0.3027	-1.1520			37.02
29		0.35665	1.2114	-1.2547	-0.2558		27.82
33		0.83047	-0.4729	0.6168	1.3133		232.8
							8
37		1.07669	0.6522	2.9886			46.73
45		1.07179	-0.6663	0.8162	2.0153		54.86
51		0.87392	-0.8706	1.6509	1.0433		149.4
							2
101		1.02514	-0.5054	2.1543			44.11
103		0.74070	0.2941	-0.0468			5.72
111		1.03434	-1.5298	-0.1607	1.5649		23.86

M1=56.3975, M2=632.3336, N=49283, Critical Z=131.42

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

Item	a	b	c	Fit-Z
59	0.66862	-2.1454	0.1547	1.03
60	0.90643	-0.8616	0.2707	1.67
61	0.72524	-1.6970	0.1147	8.40
62	0.81714	-0.1823	0.2800	3.26
63	1.02038	-0.8639	0.2406	6.44
64	0.44896	-0.7117	0.2000	27.68
65	0.64632	-0.8584	0.2000	-0.28
66	1.18316	-0.8414	0.2615	4.82
67	0.72195	0.3457	0.2068	3.82
68	1.13637	-1.0095	0.2869	3.47
69	0.49522	1.5206	0.3046	1.27
70	1.05179	-0.8573	0.4509	25.99
71	1.22567	1.7461	0.2635	10.56
72	1.14077	-0.3613	0.2916	35.49
73	0.73163	0.7269	0.1527	5.70
74	1.41378	1.0793	0.2116	40.42
75	0.63967	0.4067	0.2359	4.76
76	1.02452	0.6291	0.2109	6.13
77	1.43206	0.6622	0.2988	22.35
78	1.08732	-2.6111	0.2000	7.32
80	0.78628	-1.9645	0.2000	20.00
81	0.41828	-1.0555	0.2000	148.15
82	1.06462	-0.8527	0.2199	1.89
83	0.65776	1.3140	0.1780	22.62
84	0.51390	0.5549	0.2254	0.58
85	0.77028	-0.6143	0.1464	4.06
86	0.96117	-1.3235	0.2348	2.54
87	0.83925	-1.0500	0.1323	8.29
88	0.68728	-0.4530	0.1826	5.45
89	0.30185	2.0418	0.2000	22.60
90	1.16847	-1.1246	0.1821	32.33
91	0.58984	-0.6724	0.0984	21.28
92	1.13798	-1.1620	0.2258	11.04
93	1.05270	-0.0096	0.2017	14.19
94	0.62607	-0.3412	0.1851	1.24
95	0.62417	-0.7745	0.1143	2.96
96	1.19419	-0.8854	0.2439	9.33
97	0.82515	-1.1691	0.1543	2.96
98	0.45168	1.9502	0.1732	8.88
99	0.72144	-0.1359	0.1695	3.04

M1=52.7873, M2=531.1718, N=48520, Critical Z=129.39

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.87005	-5.0960				-0.13
2	A	1.27530	-1.7541				1.95
2	B	1.56573	-2.2847				3.92
2	C	0.26505	-2.2550				10.98
2	D	1.38590	-0.8273				0.57
2	E	1.09711	-1.5186				9.04
2	F	1.57995	-2.9957				5.64
3	A	1.17533	-3.1934	-3.6057	-0.3255	2.2921	261.35
3	B	1.30228	-5.9100	-3.7198	-0.3099	2.4003	28.02
3	C	1.72925	-7.4284	-3.2019			6.60
79		0.92834	-2.6575	-3.0615	-0.2157	2.9962	54.38
100		0.86805	-1.8916	-2.9143	-0.9352	3.1587	268.06
116		1.09436	-3.4143	-3.2309	-0.4427	3.5005	74.34

M1=52.7873, M2=531.1718, N=48520, Critical Z=129.39

**Table 117. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 6 English Mathematics**

Item	a	b	c	Fit-Z
1	1.34798	0.2980	0.2100	8.34
2	1.12028	0.3128	0.2450	7.79
3	1.11506	-0.1619	0.2189	8.52
4	0.80216	1.0013	0.3110	1.79
6	1.57400	-0.4390	0.3634	6.58
7	0.63046	-1.3856	0.0685	1.07
9	0.76147	-1.4949	0.2000	6.50
11	0.66368	0.2580	0.1686	15.10
12	1.18931	1.1191	0.1583	46.08
13	0.72640	-0.0638	0.0681	1.66
14	0.66166	-0.7760	0.3887	6.55
15	1.23399	-0.7373	0.4990	18.39
17	0.77811	-1.5915	0.2000	4.72
18	1.45270	-0.1254	0.0970	4.91
19	1.06679	0.1357	0.1928	1.40
21	0.50419	-0.6127	0.1730	40.53
22	0.55403	-1.8851	0.2000	4.74
24	1.32382	-0.5189	0.0907	10.31
25	1.05012	1.6396	0.2703	6.57
26	0.80485	-0.9771	0.2580	3.91
27	0.84244	-1.1727	0.1797	2.28
28	0.99874	0.0170	0.1321	8.66
29	1.34482	-0.0044	0.0451	37.00
31	0.92041	0.6023	0.1798	6.44
32	0.81054	-0.2779	0.1356	1.98
34	1.14342	0.7662	0.1649	16.06
35	0.39505	-1.2758	0.1028	0.76
36	0.61159	-2.8020	0.2000	5.98
38	1.12516	0.3261	0.1541	39.13
39	0.52240	-1.1684	0.0693	0.38
41	0.90936	0.2197	0.0745	2.59
42	1.00820	0.3024	0.1099	2.34
43	1.06680	0.3773	0.2259	1.05
46	0.55884	-0.6123	0.1730	23.96
47	0.83664	-0.3135	0.0385	7.54
49	1.04622	0.2110	0.2642	2.33
50	0.97872	-0.1138	0.0742	1.60
52	1.09982	1.1650	0.1464	33.53
53	0.49270	-2.4747	0.2000	10.29
54	0.62514	0.1731	0.1195	5.13
55	1.16973	0.3436	0.1640	27.99
57	0.73343	-0.3987	0.3676	7.91
58	1.35498	0.4371	0.1265	17.24
59	0.38544	0.2701	0.2332	4.76

M1=66.5504, M2=551.6686, N=54280, Critical Z=144.75

**Table 118. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 6 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		1.31869	-5.7421	-0.8148	-0.0193		13.42
8		0.80687	-0.7736	-1.2794			128.48
16		1.14713	-0.9603	-0.3143	1.2722		255.39
20		0.97732	-3.1953	-2.2198	-1.2453	-0.1120	74.56
23		0.67071	-2.4342	-0.4142			15.05
30		0.99046	-1.3022	0.1231	0.6619		78.61
33		0.56535	-0.7376	-1.1735	-1.0637		35.65
37		0.82135	-0.5652	-1.4232			99.14
40		1.20601	-1.0385	0.4046	0.5913	1.2864	152.47
44		0.87954	-0.5048	0.0778			36.17
45		1.00681	-0.9375	-1.0430	1.2892		159.01
48		0.81415	-1.8581	-0.0749			56.82
51		0.93117	-0.8575	-0.6585	1.0700		71.46
56		0.92094	0.5924	0.2780			90.09
60		0.80388	-2.1276	-0.7263	-0.5127	0.5800	45.06

M1=66.5504, M2=551.6686, N=54280, Critical Z=144.75

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

Item	a	b	c	Fit-Z
6	0.77012	0.7151	0.2774	7.94
7	1.14443	0.4559	0.1774	12.34
8	1.34774	-0.0828	0.2094	17.44
9	0.82088	-1.3131	0.3029	14.69
10	0.80318	-1.5460	0.2000	3.98
11	0.77010	0.9129	0.1139	12.41
12	1.21215	-0.5115	0.1298	8.44
13	0.62620	-0.4033	0.0536	51.24
15	0.95264	-1.7360	0.2000	26.93
16	1.27257	-1.3970	0.3476	1.83
17	1.03345	-1.5109	0.1864	2.30
18	0.72962	-0.4155	0.2021	2.35
19	0.61689	-0.9102	0.1099	0.10
20	0.87170	-0.7737	0.3523	4.20
21	0.76220	-0.8644	0.2207	6.33
22	0.84488	0.4185	0.1282	25.94
25	1.02327	0.2962	0.1412	9.49
26	0.66093	-1.0252	0.1874	17.30
27	1.10281	0.3770	0.2236	12.16
28	0.92348	-2.2673	0.2000	61.58
29	0.95141	-2.2079	0.2000	115.39
30	0.34259	0.0701	0.0943	3.30
31	0.85168	-1.1737	0.2236	12.75
32	0.61005	-0.9816	0.0794	4.54
33	0.74424	-1.0060	0.1440	21.16
36	0.67129	-0.4405	0.0880	2.48
37	0.86622	-1.7878	0.2000	36.99
38	0.59679	-1.6629	0.2000	0.77
39	0.52755	-0.2872	0.2000	3.91
40	0.61915	-0.9204	0.0930	2.10
42	1.14381	-0.8439	0.2621	3.13
45	1.19663	0.3961	0.3656	9.16
46	1.30461	1.2874	0.2690	55.89
47	1.53390	0.7415	0.1579	38.51
48	1.17050	-0.8159	0.2003	4.42
49	1.07988	0.7072	0.2613	12.14
50	0.51466	0.9546	0.2610	1.89
96	1.16015	-0.9177	0.1786	0.26
97	0.80071	-1.6319	0.1475	4.19
98	1.19550	-0.9928	0.2164	2.89
99	0.56318	2.0779	0.1469	9.19
100	0.69259	-0.1876	0.1021	5.42
101	1.39565	-1.7331	0.1586	8.56
103	0.63558	-1.5611	0.0782	4.38
104	0.63744	-1.5512	0.2000	30.46
105	1.01355	-0.4653	0.2085	6.28

continued

**Table 119. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 English Reading (Concluded)**

Item	a	b	c	Fit-Z
106	0.31988	0.5131	0.2000	85.69
107	0.73768	0.1479	0.2769	3.07
108	0.68490	-0.6057	0.2537	2.26
109	0.65508	1.7358	0.3042	0.65
112	1.09985	0.4134	0.2671	8.59
113	0.51739	-1.0877	0.1395	3.26
114	0.38014	-0.7637	0.2000	120.33
115	0.94727	-0.2734	0.1063	4.27
116	0.64277	0.0878	0.2156	6.98

M1=56.2394, M2=647.0081, N=51189, Critical Z=136.50

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		0.50062	-0.4520	-1.2843	-0.6987		9.30
5		0.73583	0.2247	0.5440			12.27
14		0.58809	-1.5350	0.6220	0.1550		69.78
24		0.56935	-1.0445	0.4553	2.0051		235.9
							2
34		0.53362	-1.5468	0.0275	1.3666		74.17
35		0.86305	-0.2258	1.6813			134.9
							5
41		0.84032	-0.7643	-1.0620	-0.3312		20.34
43		0.56778	-0.6858	0.4302	1.2449		123.3
							5
44		0.92921	-0.0360	-1.4734			128.2
							2
93		1.20363	-2.2121	0.1962			51.39
94		0.89720	-1.5284	1.1881			28.31
95		0.64538	-0.3789	0.6933	-0.6353		172.1
							6
110		1.01851	-0.8827	0.8786			69.65
111		0.58112	-1.0687	1.4996			29.30

M1=56.2394, M2=647.0081, N=51189, Critical Z=136.50

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

Item	a	b	c	Fit-Z
51	1.02998	-2.3095	0.2000	4.45
52	0.67004	-1.4157	0.0994	0.76
53	0.85493	-1.6089	0.2000	3.10
54	0.54334	-1.5835	0.1809	21.41
55	0.36919	-0.6422	0.2000	38.17
56	0.70118	-1.7113	0.2000	12.60
57	0.55562	-0.7819	0.2000	1.41
58	1.02933	-1.3837	0.2340	1.71
59	0.65751	-1.0245	0.0638	1.47
61	0.97015	-1.1624	0.1163	4.01
62	0.76829	1.1191	0.1810	20.94
63	1.31925	-1.4004	0.2010	22.34
64	0.69579	-1.8015	0.1145	5.26
65	0.98678	-1.5396	0.2000	7.93
66	0.54986	-1.9752	0.2000	51.58
67	1.18676	-1.2189	0.2033	4.10
68	0.92379	-1.3000	0.2000	4.36
69	0.77053	-1.0049	0.1241	27.38
70	0.58252	1.6611	0.4995	40.02
71	0.41462	-0.3865	0.2060	-0.09
72	0.95638	-1.3942	0.3297	5.47
73	1.08570	1.5336	0.1873	36.38
74	0.35564	-1.1242	0.2000	12.84
75	0.96419	1.1341	0.1600	44.90
76	0.59420	-0.1002	0.2004	-0.11
77	0.93107	0.3140	0.1982	5.82
78	0.78979	1.2535	0.1686	54.20
79	0.55027	-0.1081	0.0791	1.42
80	1.06511	-1.0322	0.1800	9.67
81	1.01830	-0.8928	0.2223	4.84
82	0.98743	-1.2836	0.1832	36.13
83	0.80750	-0.6624	0.2000	45.63
84	1.10708	-0.9448	0.2354	4.48
85	1.18138	-1.1387	0.1961	5.17
86	1.39860	-0.9860	0.1915	12.07
87	0.85603	1.2859	0.1628	4.91
88	0.80689	-0.6103	0.1510	2.64
89	0.93523	-0.7323	0.1352	9.12
90	0.83575	1.3778	0.1640	10.47
91	1.35991	-0.9371	0.1871	8.03

M1=61.2044, M2=561.8812, N=50780, Critical Z=135.41



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

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.12149	-5.1787				2.59
2	A	1.63457	-1.8614				9.17
2	B	0.75621	-1.4405				19.81
2	C	1.18380	-1.4233				8.45
2	D	1.07109	-0.4402				5.89
2	E	1.65915	-0.2164				10.35
2	F	0.77885	0.1808				3.77
3	A	1.25699	-2.5377	-3.5140	-0.1485	2.6263	397.19
3	B	1.44421	-5.8802	-3.7701	-0.1320	2.8194	37.47
3	C	1.63497	-6.7012	-2.7939			9.86
23		1.05189	-3.1176	-3.2771	0.1638	3.0990	62.82
60		0.95450	-2.6674	-3.3231	-0.8412	2.0183	74.60
92		0.90457	-2.1921	-2.3017	0.5470	2.7631	145.31

M1=61.2044, M2=561.8812, N=50780, Critical Z=135.41

**Table 123. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 7 English Mathematics**

Item	a	b	c	Fit-Z
1	1.05119	-0.4226	0.1804	4.62
2	0.99243	0.2152	0.4291	19.84
4	0.25033	-0.5759	0.2000	18.16
5	0.56000	-0.2256	0.1271	4.61
6	0.97387	2.4169	0.2000	254.27
7	0.86963	0.1838	0.1467	0.11
8	1.49419	0.5000	0.2376	42.45
10	0.55152	-2.2506	0.2108	5.82
12	1.29077	0.8557	0.2367	28.62
13	0.65606	0.9573	0.2253	5.36
14	0.66759	-2.1933	0.2000	7.73
16	0.93401	-0.7933	0.3005	3.22
17	0.70589	0.3698	0.2907	2.01
18	0.99828	0.0528	0.1556	29.48
19	1.07949	-0.7644	0.4982	4.61
21	0.86240	0.7481	0.0647	3.53
22	0.79276	-0.5453	0.2915	26.15
23	1.33681	0.1503	0.2849	8.70
24	0.90601	0.9492	0.0800	10.76
25	0.86075	1.5088	0.1639	3.27
27	1.16640	1.5855	0.1034	17.16
29	0.41532	1.3893	0.2636	1.02
30	1.19425	-0.9210	0.0683	33.83
32	0.79935	0.3343	0.1811	4.44
33	0.95932	-0.8225	0.2326	1.47
35	1.65009	1.2132	0.2000	468.95
36	0.92566	-0.7754	0.3059	0.07
37	0.89636	0.4455	0.1511	6.01
38	0.66668	0.2607	0.1823	2.44
39	0.71902	-0.8619	0.3657	10.13
41	0.57604	0.6071	0.2710	32.87
42	0.76580	-0.8620	0.1134	11.57
44	0.87623	0.0084	0.3479	2.02
45	0.70586	-1.8211	0.1049	7.38
46	0.71644	0.6765	0.3034	-0.68
47	1.11324	0.3600	0.1962	4.37
48	1.01883	0.1494	0.1034	1.01
50	1.16117	0.4344	0.2186	2.18
51	1.33731	0.5728	0.1985	83.81
52	1.32107	-0.0257	0.0649	46.24
54	0.36232	-1.4761	0.2000	0.44
55	1.24197	-0.0187	0.2199	4.24
56	1.14041	-0.3520	0.4035	-0.06
58	1.00553	-0.2084	0.1721	10.28
59	0.40707	-0.6332	0.2182	8.25

M1=61.7364 ,M2=569.4846,N=54880, Critical Z=146.35

**Table 124. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 7 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
3		0.70092	1.4996	-0.1924			188.36
9		1.39443	-1.0642	-0.5010	0.2646		66.09
11		1.38865	-1.0034	0.6240			203.00
15		1.38220	0.6538	2.0503	0.6999		45.95
20		0.97674	-2.3379	0.2793	2.0803	0.6197	46.76
26		0.57290	0.7336	1.2963			886.44
28		1.49135	0.4139	1.3148	1.7467		38.81
31		1.25873	-0.1058	0.9567			66.58
34		1.05320	-1.0052	-1.0295	1.0018		97.71
40		1.03011	-1.9743	-0.4508	0.6877	1.0632	50.89
43		0.83869	-0.5259	0.0012			23.51
49		0.90051	-1.2280	0.7197	-0.3094		40.14
53		1.00532	0.0280	0.1130			161.42
57		0.52489	-1.6045	-1.4365	-0.4747		23.57
60		0.94659	-1.1242	-0.4999	0.3126	2.7660	57.44

M1=61.7364 ,M2=569.4846,N=54880, Critical Z=146.35

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

Item	a	b	c	Fit-Z
4	0.94728	-2.2878	0.0927	10.24
5	0.39461	-2.6000	0.2000	41.37
6	0.30789	-2.2946	0.2000	6.84
7	0.86028	-1.3437	0.2511	4.85
8	0.85328	-1.0087	0.1669	4.01
9	0.75171	-1.6299	0.1409	1.69
10	0.67906	0.6970	0.1117	9.05
11	0.48937	-1.6485	0.2000	54.21
13	0.70028	-2.2115	0.1098	5.61
14	0.59661	-0.7982	0.2000	-0.32
16	0.62082	-1.4336	0.2000	2.65
17	1.08242	-1.8547	0.1036	4.77
18	0.92141	-0.6526	0.3016	3.03
19	0.37067	1.3978	0.1687	0.00
20	0.60526	-0.6972	0.2222	2.13
21	1.06045	0.9019	0.2482	34.37
23	0.40847	-1.6677	0.2000	27.42
24	0.63877	0.5406	0.2301	2.52
26	0.55197	-2.1828	0.2000	12.92
27	0.69659	-1.1667	0.1779	27.52
31	1.09924	-1.6241	0.3149	1.93
32	1.26915	-1.5757	0.1292	3.17
33	0.52374	0.9335	0.2000	4.64
34	0.35482	0.5174	0.0840	3.77
35	0.83638	-1.4202	0.0884	3.33
36	0.45178	-0.5881	0.2867	14.93
37	0.73252	-0.7599	0.1820	0.03
40	1.06971	0.2523	0.3707	6.82
41	1.10792	0.9491	0.2591	37.75
42	1.37519	0.6246	0.1550	31.18
43	1.14163	-1.1015	0.2199	1.77
44	0.79833	0.1092	0.2076	5.11
45	0.35853	-2.5643	0.2000	6.64
46	0.92498	0.5072	0.1919	5.76
92	0.41590	2.0935	0.1621	22.58
93	0.36591	-2.4316	0.2000	107.09
94	0.76877	-1.9465	0.0902	6.31
95	0.59045	-0.2012	0.0801	2.88
97	0.15795	0.7592	0.2000	9.90
98	0.58565	-0.1489	0.2000	22.46
99	0.22202	1.2682	0.2000	27.63
100	0.70577	-1.2883	0.1779	52.73
101	0.85367	-0.7470	0.1564	4.67
102	0.28466	0.1127	0.2000	95.86
104	0.68078	0.5240	0.1652	4.14
105	0.53019	-1.1023	0.1779	8.94
106	0.68142	0.0162	0.1260	0.82
107	0.28506	0.8756	0.2000	6.95

continued

**Table 125. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 8 English Reading (Concluded)**

Item	a	b	c	Fit-Z
108	0.82349	1.7688	0.2691	4.96
109	0.81462	2.0265	0.2597	4.06
110	0.94221	0.7002	0.2181	15.30
112	0.54650	0.6020	0.1732	2.93
113	0.95550	-1.0946	0.2595	5.65
114	0.91002	0.0186	0.1232	11.48
115	0.79438	-0.2390	0.1490	1.98
116	0.95446	-0.9359	0.2066	0.70

M1=50.7028, M2=655.4650, N=51802, Critical Z=138.14

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
12		0.98285	-1.9967	-0.6137			49.90
15		0.62825	-2.2491	1.9046	-1.9598		34.94
25		0.99032	-1.9132	0.8919			8.32
28		0.96957	-1.5815	-0.7959	1.5490		36.21
29		0.77767	0.5216	0.3162			37.52
30		0.75790	-2.4289	0.1772	0.6959		50.22
38		0.85361	-0.5510	-0.2024			55.67
39		1.05997	-0.4414	-1.0576			99.74
89		1.20073	-2.5467	-0.1116			55.65
90		0.87868	-1.7053	0.9732			44.90
91		0.92264	-1.5259	1.3610	1.8011		48.04
96		0.55610	-0.5630	0.7620	-0.8858		229.18
103		0.64409	-1.0537	-0.0612			127.90
111		0.57744	-1.6720	0.0780	-0.1384	-0.1765	21.35

M1=50.7028, M2=655.4650, N=51802, Critical Z=138.14

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

Item	a	b	c	Fit-Z
47	0.76429	-1.5170	0.2000	2.61
48	0.86259	-1.3577	0.2000	18.95
49	0.26898	-5.4660	0.2000	65.77
50	0.75961	-0.3164	0.2280	12.91
51	0.97429	-0.3723	0.2726	13.60
52	0.96021	-1.7499	0.2000	7.17
53	0.73756	1.0500	0.1522	19.82
54	0.54958	-0.3230	0.1578	0.69
55	0.94620	-1.1651	0.2713	2.22
56	0.19403	0.7078	0.2000	72.96
57	0.57466	0.5140	0.2594	-0.13
58	0.86310	0.7273	0.4985	14.50
59	0.39813	-0.5909	0.2000	1.26
60	0.74416	0.1998	0.4268	28.63
61	0.36017	-1.5049	0.2000	10.78
62	0.14772	2.4618	0.2000	100.47
64	0.92688	-1.2398	0.1724	5.21
65	0.75504	-2.0237	0.2062	11.76
66	0.68419	-0.9861	0.2000	2.21
67	1.01475	-0.5009	0.2661	7.42
68	1.41498	-1.3918	0.1898	14.16
69	0.74202	-0.2173	0.1064	54.09
70	0.41352	2.7620	0.2902	7.54
71	0.62577	-0.2042	0.2193	3.37
72	0.86924	0.6206	0.1105	47.51
73	0.71109	-0.4444	0.0983	4.74
74	0.87345	-1.9481	0.2000	37.88
75	1.53402	-1.6333	0.3193	21.31
76	0.78623	1.1435	0.1772	39.33
77	1.13236	0.0816	0.3115	11.89
78	0.76751	-1.1426	0.2000	28.98
79	0.61552	-0.0776	0.1233	3.32
80	1.10184	-1.1327	0.1367	34.65
81	0.83034	-1.0102	0.1072	20.16
82	0.94059	-0.6757	0.1829	10.05
83	0.63153	-1.3688	0.2000	24.19
84	0.91410	-0.4851	0.2032	3.55
85	1.30475	-1.0013	0.2210	20.28
86	1.10663	-0.7987	0.1237	13.10
87	1.02930	-0.6954	0.2321	16.97

M1=61.3284, M2=562.2264, N=51492, Critical Z=137.31

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.04793	-4.9818				0.29
2	A	1.01906	-1.6835				1.69
2	B	0.65011	-0.5137				19.51
2	C	0.89394	-2.8155				13.74
2	D	0.92087	-1.2741				32.45
2	E	1.13501	-0.0268				27.11
2	F	1.01747	-1.7133				39.90
3	A	1.39562	-2.8165	-3.7923	-1.9279	2.9125	890.52
3	B	1.64411	-6.1803	-4.2037	-1.9397	3.1354	28.06
3	C	1.98532	-7.3617	-3.6353			7.47
22		0.77098	-1.5055	-3.1591	-0.0825	1.9840	54.73
63		1.10357	-3.0953	-3.7805	-0.4905	2.4958	72.39
88		0.95706	-2.0569	-2.3100	0.0981	2.9600	217.55

M1=61.3284, M2=562.2264, N=51492, Critical Z=137.31

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

Item	a	b	c	Fit-Z
1	0.70116	0.3110	0.3314	9.74
3	0.38775	-1.4074	0.2000	23.93
4	0.66243	-0.2853	0.0442	3.66
5	0.61901	-0.4632	0.0741	4.58
7	1.13311	0.3346	0.1792	14.87
8	0.65615	0.3552	0.2635	28.83
10	0.68090	0.4992	0.0413	11.52
11	1.12346	0.5998	0.2382	19.39
12	1.76471	0.8043	0.2792	16.78
13	0.52042	-0.5460	0.2203	3.24
14	1.37811	0.4371	0.0889	26.24
16	0.52084	-1.1713	0.2000	14.27
17	0.24652	-0.1837	0.2000	28.81
18	0.61359	-1.9826	0.1809	7.70
19	0.59364	1.0717	0.2000	167.34
21	1.13012	-0.1541	0.2742	9.73
22	0.89929	0.0598	0.4441	21.47
23	1.13979	-0.3354	0.2358	1.45
24	0.96591	0.0319	0.1030	8.46
26	0.80681	-0.6735	0.2369	7.92
27	1.69139	1.5619	0.2000	934.42
29	1.37167	2.2511	0.2000	515.22
30	0.87071	0.9214	0.3207	0.69
32	0.97536	-0.2736	0.1967	4.91
33	0.97130	1.1268	0.0967	27.46
35	0.39680	-0.9633	0.1238	5.65
36	1.65142	2.0290	0.1280	179.78
37	1.14379	1.0407	0.2991	1.23
38	1.23771	-0.0607	0.1473	1.47
39	1.26314	1.0022	0.1055	5.11
41	0.59587	-0.0555	0.1342	-0.86
42	0.97862	-0.8755	0.1035	9.76
43	1.51310	2.0076	0.2181	20.41
44	0.67297	-1.6461	0.1809	6.40
46	1.15519	2.0860	0.1249	54.59
47	1.65948	1.5670	0.1500	83.66
48	0.70806	2.5845	0.2151	0.78
49	0.65980	0.1825	0.1506	1.51
51	1.00944	0.5808	0.0504	6.26
53	1.71109	1.7020	0.1389	280.88
54	1.68811	0.7208	0.2249	9.86
55	0.65195	0.5036	0.2310	0.96
57	0.57751	-1.1511	0.2725	8.14
58	0.95159	-0.8680	0.2046	7.28
59	1.18081	1.3484	0.2745	11.12

M1=53.0329, M2=580.1115, N=55043, Critical Z=146.78



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

Item	Part	f	g1	g2	g3	g4	Fit-Z
2		0.67571	0.0379	-0.6488			13.03
6		1.03444	0.5380	-0.4413	0.2868		8.79
9		0.96276	2.7550	-0.7243			61.31
15		0.76652	1.1742	1.1185	0.9542		48.31
20		1.09800	0.2937	-0.0216	2.9567	0.9820	35.51
25		1.29022	-0.4102	0.6602			33.12
28		1.19931	-1.8299	-0.1949	0.8394		51.21
31		1.39097	-0.0744	1.1813			57.02
34		1.31045	1.1967	2.3637	2.0832		17.15
40		0.96676	-2.0217	-0.7018	0.4302	0.6919	98.96
45		1.34810	-1.2533	0.3545			241.31
50		0.89953	-2.0981	0.9983	1.6298		275.91
52		0.67063	2.0752	-1.4520			95.64
56		1.26063	-0.6887	0.4186	0.9378		96.06
60		1.18026	-2.1359	-2.3888	-0.7141	0.5725	446.10

M1=53.0329, M2=580.1115, N=55043, Critical Z=146.78

**Table 131. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 English Science**

Item	a	b	c	Fit-Z
1	0.66864	-0.3770	0.0643	11.82
3	1.13097	0.7907	0.3787	4.04
4	0.91300	0.7066	0.2086	20.18
5	0.65820	0.4790	0.1913	1.87
6	0.94413	0.7102	0.1869	2.18
7	0.50790	-0.5024	0.1186	13.27
9	1.03678	-0.3112	0.2255	7.93
10	0.76175	1.3704	0.1654	3.46
11	0.58728	1.1666	0.3743	0.39
13	1.18375	0.2342	0.2344	10.41
14	0.74337	-1.1546	0.0425	3.19
15	0.88138	1.0302	0.1391	36.88
16	0.91760	0.8038	0.2361	8.03
17	0.56926	-0.5821	0.1871	2.02
18	0.64942	-0.8052	0.0365	8.07
27	1.03287	-0.6062	0.3904	4.30
28	1.51613	1.6418	0.3422	28.10
29	0.54705	0.5035	0.3967	1.62
30	0.43474	-1.3863	0.2000	14.66
32	0.58404	0.3796	0.0496	3.56
34	0.96144	-1.3530	0.0320	24.51
35	0.44976	2.0891	0.2369	4.31
36	0.70323	-0.0867	0.2210	3.07
37	0.84741	0.7752	0.2836	1.91
38	0.61562	-1.3692	0.1004	4.52
39	0.81240	-0.3404	0.3186	12.31
40	0.16925	0.8154	0.2000	190.78
41	1.11539	1.3290	0.1263	17.01
43	0.47922	0.1270	0.1193	8.65
44	0.94043	-1.0213	0.0498	1.76
45	0.53571	0.0643	0.2979	20.14
46	0.77758	2.1141	0.2063	26.08
47	0.76726	-0.1345	0.1846	15.54
48	0.96657	3.2276	0.0923	10.03
50	0.87654	-1.9737	0.2000	15.92
51	0.61762	0.5881	0.2345	6.26
52	0.84759	-0.4429	0.1676	14.38
54	0.64274	0.9098	0.3919	1.86
55	1.03858	0.7017	0.3728	4.65
56	0.31658	-2.0021	0.2000	4.53
57	0.67575	1.1079	0.2449	1.65
59	0.52375	-1.9186	0.0000	13.89
60	0.33207	-0.6385	0.2000	25.77
61	0.60406	1.7118	0.1797	13.99
63	0.64548	-0.1059	0.0401	23.77
64	0.69077	-1.5387	0.1896	168.44
65	0.53315	2.4866	0.1118	1.53
67	0.62808	1.1950	0.1231	1.10
68	0.69297	-0.0082	0.1911	1.32

continued

**Table 131. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 English Science (Concluded)**

Item	a	b	c	Fit-Z
70	1.41363	0.7897	0.2027	144.56
72	0.69743	0.0110	0.2820	7.07
73	0.58950	-0.4381	0.1896	51.83
74	1.14017	2.2350	0.2213	20.18
75	0.19805	-1.6647	0.2000	59.35
77	0.50345	1.0190	0.0375	10.04
79	0.84935	0.5260	0.1117	1.68
80	0.83362	1.0717	0.2772	0.02
81	0.84178	-0.0605	0.2622	3.00
82	0.84267	-2.2301	0.2000	13.03
83	0.92142	1.4002	0.2393	12.77

M1=53.4098, M2=510.7547, N=54953, Critical Z=146.54

**Table 132. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 English Science**

Item	Part	f	g1	g2	g3	g4	Fit-Z
2		1.49268	-0.3454	3.0546			56.88
8		1.18430	2.6373	3.0911			3.51
12		0.51200	2.7476				5.35
19		0.74504	-0.3386	0.3782			76.71
20		1.10118	0.1672				68.88
21		0.87246	-1.4883				4.48
22		0.42733	-0.6709	-0.8867	-0.6223	0.0712	35.78
23		1.41689	-1.9332				29.81
24		0.69341	1.0446				11.99
25		0.81057	0.6368				31.78
26		0.58549	2.4964	-1.3206			12.88
31		1.14432	0.6248	1.2682			12.19
33		0.74494	0.9277				1.49
42		0.72398	-0.2141	-0.1066			32.21
49		0.74289	-0.5558				18.55
53		0.50054	-0.0913	-0.9127			89.35
58		0.69736	0.1461	0.5629			43.11
62		1.30197	0.1921	4.1323	2.6217		24.72
66		1.33388	0.0453				15.26
69		0.56422	0.5168	2.0278	1.1662		28.42
71		1.47785	1.4706				15.22
76		1.01195	-0.2358	1.6468			8.79
78		1.20913	0.2797	4.1750			5.14

M1=53.4098, M2=510.7547, N=54953, Critical Z=146.54

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

Item	a	b	c	Fit-Z
4	1.45886	-1.1809	0.1378	4.76
6	1.31471	-1.6203	0.3776	4.11
7	1.35145	-1.7556	0.1498	6.96
8	0.54279	0.5107	0.1254	2.83
9	0.47199	0.3465	0.2000	5.35
10	0.85836	-1.7112	0.0768	5.35
11	0.37244	-1.1393	0.2000	33.53
12	0.89622	-0.7762	0.2007	1.73
17	0.72568	-1.5794	0.2000	0.53
18	1.27850	-1.7871	0.0578	8.74
19	0.95104	-0.8744	0.2215	2.68
20	0.50286	-1.5362	0.2036	12.04
21	0.86551	-1.6235	0.2036	37.56
22	0.36587	1.6298	0.1494	2.25
23	0.65193	-0.8745	0.2030	5.08
24	1.15512	0.8108	0.2312	50.50
26	0.58790	-1.4376	0.2000	90.79
27	0.68579	-0.2889	0.3247	12.43
29	0.96304	2.1519	0.2337	3.64
30	0.61088	-0.9750	0.1342	14.01
31	0.99071	-0.0287	0.1964	5.69
33	0.52783	-1.6629	0.2000	14.74
34	0.66468	-0.1055	0.2076	8.10
35	0.57373	-1.7863	0.2000	11.87
36	1.11698	-0.8611	0.2673	2.76
37	0.82666	0.3326	0.1240	8.62
38	1.07686	-0.8987	0.2202	3.31
39	0.73169	0.0522	0.1838	6.48
40	0.29412	7.3000	0.1100	184.49
41	0.86620	-0.1495	0.4156	4.52
42	0.97537	-0.1398	0.3174	3.07
44	0.73173	0.2687	0.2163	2.29
46	0.60880	0.4292	0.2357	47.61
47	0.40554	-1.7123	0.2000	16.05
48	1.25675	0.2544	0.3591	34.08
49	0.91859	-0.4058	0.3030	1.09
50	1.13728	-0.5055	0.2744	2.88
51	0.88701	-0.2255	0.2018	10.13
52	0.49238	-0.8915	0.2000	34.19
53	0.92584	1.3328	0.1528	11.28
54	0.78044	0.2586	0.1610	6.72
98	1.36056	-0.6407	0.2726	2.08
99	1.26847	-1.1430	0.2258	1.90
101	0.12168	2.4041	0.2000	137.32
102	1.15217	-0.6108	0.1931	5.77
103	0.94954	-1.3502	0.3532	0.78
104	1.22861	-0.4879	0.2088	5.07

continued

**Table 133. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 English Reading (Concluded)**

Item	a	b	c	Fit-Z
107	1.03450	0.6245	0.1758	9.61
108	1.07318	0.0531	0.2606	2.30
109	0.63817	0.1985	0.1521	53.19
110	0.78570	-1.2807	0.1035	62.54
111	1.50436	0.8814	0.1924	24.37
113	1.16873	0.3434	0.1726	19.61
114	0.82386	0.0561	0.2667	18.69
115	1.35876	1.4281	0.1921	24.38

M1=45.7269, M2=665.9526, N=50628, Critical Z=135.01

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.69452	-2.4926	-0.0202	0.1130		78.84
13		0.66874	-0.5387	0.6463	1.1861		87.65
14		0.65256	0.2433	-0.6829	2.7784		89.08
15		0.51980	-1.2448	-1.2968	-0.9095		41.09
16		0.58758	-1.9310	1.5176	-2.0439		72.40
25		0.80036	-0.2834	-0.1642	0.1996		61.62
28		0.93383	-1.2149	-0.1292	1.0019		43.02
43		0.64037	-0.5511	0.8888	1.1276		68.96
45		0.92879	-0.9931	0.8000	0.9742		205.77
97		0.90821	-0.9122	1.9149	1.7489		10.64
100		1.17274	0.1507	0.9817			54.72
105		0.71322	0.6467	-1.1355	-0.0271		112.26
106		1.12479	-0.1179	1.1257			62.91
112		1.17718	-0.8437	0.9850			79.15

M1=45.7269, M2=665.9526, N=50628, Critical Z=135.01

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

Item	a	b	c	Fit-Z
55	1.07423	-0.6806	0.2382	8.08
56	0.40702	1.1115	0.4996	74.78
57	0.57005	-1.2567	0.2000	10.95
58	1.73278	2.6097	0.3393	17.71
59	0.65807	0.0929	0.2356	8.30
60	0.78331	-0.5140	0.2160	5.29
61	0.69898	1.5288	0.1451	6.35
62	0.96938	-0.6736	0.2157	2.96
63	0.86867	-1.4983	0.1292	5.17
64	0.97457	-1.3437	0.2758	0.99
65	0.39668	1.7294	0.4143	2.01
66	0.83630	0.5643	0.3112	4.17
67	0.40854	-0.3117	0.2124	30.43
69	1.76471	-0.9848	0.1562	25.95
70	0.71917	-1.3447	0.1438	5.28
71	1.38141	-0.9789	0.2567	3.28
72	0.68012	-0.9483	0.2000	16.33
73	1.33711	0.2678	0.2705	21.85
74	1.65567	-0.3831	0.2214	17.46
75	0.61105	-0.7170	0.0920	16.99
76	1.00725	-0.3164	0.2672	3.26
77	0.84742	0.9872	0.1650	20.24
78	0.67790	-0.1195	0.1475	3.74
79	1.17860	-1.0780	0.1344	22.10
80	0.94938	-1.0669	0.1346	4.36
81	0.67200	-0.2432	0.2918	10.92
82	0.63769	0.5963	0.3150	2.96
83	0.82213	-0.6153	0.1462	0.74
84	0.51121	-0.1375	0.2000	13.88
85	0.86473	-1.0322	0.1196	21.17
86	0.55557	0.9851	0.2235	16.84
87	1.27868	-1.3247	0.2352	22.86
88	0.95251	-0.9454	0.1888	19.24
89	1.26585	-0.3597	0.2447	6.43
90	1.73684	-1.3277	0.2565	10.32
91	1.15189	-0.7230	0.2207	10.02
92	1.14523	-0.4438	0.2216	3.43
93	1.07273	-0.7374	0.2277	4.34
94	1.05499	-0.8202	0.0906	5.77
95	1.12108	-0.8334	0.1316	25.71

M1=69.3016, M2=568.7093, N=50477, Critical Z=134.61

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.26152	-5.0529				10.08
2	A	1.16632	1.5671				84.14
2	B	0.85393	-0.7231				8.76
2	C	1.39467	-1.7411				0.98
2	D	1.25471	0.4896				6.72
2	E	1.21165	-0.4123				17.50
2	F	0.87441	0.5740				17.86
3	A	1.48853	-3.8624	-3.0632	-0.8572	2.7367	149.78
3	B	1.60773	-5.7520	-3.2269	-0.7454	2.8379	51.10
3	C	1.90445	-6.6803	-2.8181			33.09
68		0.89539	-1.8434	-3.5048	-0.8036	2.0035	89.02
96		0.93633	-1.6991	-2.8479	-0.5659	2.1628	184.36
116		0.89800	-2.1532	-2.2340	0.4887	2.7880	71.16

M1=69.3016, M2=568.7093, N=50477, Critical Z=134.61

**Table 137. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 9 English Mathematics**

Item	a	b	c	Fit-Z
1	0.60172	-0.2892	0.1078	5.71
2	1.54974	2.2138	0.1596	311.79
3	0.69927	-0.9593	0.0549	16.04
5	1.39394	1.3815	0.2179	34.77
7	1.20040	0.3728	0.1742	17.83
8	1.44072	0.8366	0.1961	6.61
9	1.26117	0.7145	0.0998	19.92
10	1.26215	1.9680	0.1980	8.81
12	0.60563	1.9167	0.2032	0.25
13	1.76471	1.5951	0.2104	20.82
14	0.88627	-0.3757	0.1948	3.11
16	1.37355	2.3858	0.1293	4.36
17	0.24076	-0.1652	0.2000	16.86
18	1.28981	1.7469	0.3612	6.65
19	0.78404	0.8608	0.2791	20.89
21	0.99347	1.3011	0.2552	1.78
22	0.92296	1.2062	0.1863	14.23
24	1.10909	0.9699	0.0706	13.05
25	0.47838	-2.2106	0.2000	28.03
26	0.86904	1.5389	0.1650	1.08
27	0.55267	2.2185	0.2156	38.13
28	1.81778	1.9125	0.4656	187.57
30	0.95003	1.0742	0.2729	10.69
31	0.57791	-0.6457	0.1832	7.77
32	0.66898	0.1432	0.1993	0.99
34	0.92609	1.0555	0.0944	34.14
35	0.57350	-0.4986	0.1081	4.49
36	0.97028	0.2493	0.1120	39.19
37	1.33874	1.8361	0.2647	1.85
39	1.10405	1.4057	0.1182	20.39
41	1.14067	0.6171	0.3234	1.52
42	1.05361	0.6884	0.2333	14.49
43	0.99241	0.3067	0.3592	3.69
45	0.44401	-2.3301	0.2000	23.02
46	1.02068	0.7663	0.4760	12.33
47	1.24447	1.0937	0.1413	11.56
48	1.18117	0.2927	0.3855	15.74
50	1.22910	0.8092	0.1121	33.27
51	1.76471	2.1351	0.2590	54.07
53	0.85056	2.0526	0.1586	15.87
54	0.72497	0.3352	0.2025	15.89
56	1.37504	0.7779	0.1340	20.90
57	0.32277	0.6858	0.2000	90.50
58	1.76471	2.0177	0.0881	91.11
59	0.18693	1.1413	0.2000	37.39

M1=62.1097, M2=567.6231, N=57875, Critical Z=154.33



**Table 138. Item Parameter and Fit Summary, Constructed-Response Items,  
Grade 9 English Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		0.80824	-0.0671	0.9825			166.30
6		1.26571	-1.8636	1.5359	0.9644		130.39
11		0.92913	2.8602	-0.8537			62.25
15		0.92632	1.0337	1.2573	0.8681		67.29
20		0.83897	-1.6476	0.3788	2.0929	1.9161	142.06
23		1.02381	2.1454	0.7298			6.31
29		1.42149	1.3104	2.2116	1.9808		29.69
33		0.68596	0.7879	1.1185			276.17
38		0.89434	-1.5639	-0.5127	1.2230		51.38
40		0.93926	-0.9322	-0.1761	0.3981	1.4163	106.05
44		1.19261	3.0576	-0.5404			84.13
49		1.92348	0.6535	1.7625	3.3434		63.12
52		1.85147	-1.4248	0.0732			125.60
55		1.43320	1.2317	0.9819	0.9052		73.16
60		1.46107	0.8650	0.8940	1.9498	3.8461	140.20

M1=62.1097, M2=567.6231, N=57875, Critical Z=154.33

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

Item	a	b	c	Fit-Z
4	0.66271	-1.2214	0.1854	11.49
5	0.60690	-2.0013	0.1082	2.61
6	0.68138	-1.3889	0.2000	2.84
8	0.94643	-1.6236	0.1854	34.19
9	0.77594	-1.3749	0.1896	6.83
11	0.32566	-0.8851	0.2000	13.88
12	0.61822	-1.2284	0.0983	6.72
13	0.65072	-0.9330	0.1854	10.84
14	0.76953	-0.8060	0.3366	11.75
17	0.30990	-1.5072	0.2000	20.14
18	0.56818	-1.0189	0.1531	1.93
19	0.55721	-0.8223	0.2792	3.39
20	0.59236	-0.9656	0.1690	5.09
21	1.28507	0.2496	0.3282	13.99
22	0.62200	-0.8723	0.2000	15.61
23	0.94496	-0.4547	0.2121	5.57
24	0.23649	-2.5625	0.2000	10.14
25	1.27641	-1.9741	0.2000	8.16
26	0.54381	-2.0856	0.1854	8.01
28	0.61323	-0.3814	0.1209	7.97
29	0.52377	0.2552	0.1940	6.92
30	1.00494	-1.8190	0.2087	7.07
31	0.55296	-0.2443	0.2024	7.95
33	0.82942	-0.6143	0.2217	1.76
34	0.36600	-0.0266	0.2000	40.19
35	0.87782	0.1684	0.2193	4.14
36	1.18179	0.3786	0.2376	9.26
38	1.33295	-0.4124	0.1118	5.51
39	1.25631	-1.8046	0.2036	3.53
40	0.84860	1.3943	0.4245	26.08
41	0.71606	0.3754	0.1538	20.77
42	0.50035	-0.3506	0.2000	48.49
43	1.45065	-0.5252	0.2858	4.01
44	1.23178	-1.2853	0.2529	5.28
46	1.17236	-0.8313	0.1634	12.39
47	0.81199	-1.9260	0.2000	20.24
48	1.19030	-0.7998	0.2261	2.31
52	1.10829	-0.3059	0.2929	19.68
96	0.97547	0.2625	0.2171	4.79
97	0.95391	-0.1113	0.2704	3.19
98	0.51071	-0.2475	0.1198	68.30
99	0.72231	-1.4132	0.2000	92.75
100	1.43316	0.5985	0.2258	37.16
102	1.50449	1.3990	0.2868	52.15
103	1.16924	0.2131	0.2087	17.14
104	0.71521	-0.8987	0.1767	29.49

continued

**Table 139. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 10 English Reading (Concluded)**

Item	a	b	c	Fit-Z
105	1.27147	1.1846	0.1882	19.60
107	0.86120	-1.1717	0.1854	201.78
108	0.35730	-1.0002	0.2000	74.85
109	1.08408	-0.8306	0.1347	29.55
110	0.59870	-1.3203	0.0636	23.89
111	0.35754	0.8223	0.1395	1.92
112	1.35399	-0.4473	0.1526	9.32
113	1.21693	-1.2405	0.2499	1.36
114	0.36430	0.5264	0.2000	1.42
115	1.02454	-1.0566	0.2697	16.21

M1=44.0673, M2=694.1993, N=47225, Critical Z=125.93

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
7		0.53247	-0.3952	0.3076	1.1841		145.86
10		0.54754	-0.5138	-0.7651	-0.1764		10.35
15		0.82862	-1.3044	0.0311	1.5758		13.58
16		0.83009	-0.0567	-1.7766	0.0968		54.60
32		0.74260	-0.1903	-0.0104	0.8932		23.76
37		0.81402	-1.8114	-0.1681	1.3254		35.76
45		1.22084	0.1286	0.5156			24.84
49		0.86884	-0.9713	1.7302	1.4065		25.64
50		0.75357	0.5322	-1.1848	-0.1763		68.54
51		0.76975	0.3622	-0.0976	0.5038		24.58
95		1.03826	-0.4532	0.8516			12.13
101		1.18760	-1.1902	0.6663			85.89
106		0.86747	-0.2377	-0.6930	0.7546		157.50
116		1.11235	-1.8061	-0.8077	1.9893		160.71

M1=44.0673, M2=694.1993, N=47225, Critical Z=125.93

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

Item	a	b	c	Fit-Z
53	1.08928	-0.4520	0.2387	10.73
54	0.28142	-1.3207	0.2000	46.60
55	0.28239	1.7637	0.2000	11.54
56	0.81951	-1.8350	0.2000	21.66
57	0.86406	0.7193	0.1302	6.35
58	1.76471	-1.3289	0.1900	6.55
59	0.53761	-0.2554	0.2000	49.20
60	1.01647	-0.8502	0.2236	2.38
61	0.86762	0.3752	0.2156	4.30
62	1.57941	-1.0254	0.2624	13.85
63	0.56420	-1.4478	0.1622	48.42
64	0.85592	-0.9259	0.1332	20.16
65	0.56324	-0.1617	0.2000	45.83
66	0.38707	-1.2768	0.1143	2.10
67	0.90045	-0.8414	0.1603	6.11
68	0.60131	0.5109	0.1673	7.77
69	0.47261	0.7231	0.1954	12.52
70	0.76982	-0.1917	0.2075	4.87
71	1.14930	1.0352	0.3208	25.19
72	0.28709	0.3051	0.2000	24.06
73	1.17129	-1.1333	0.2295	7.24
75	1.02618	-1.2902	0.1330	9.51
76	0.65584	-1.1354	0.1671	-0.19
77	0.60679	0.1033	0.2850	1.56
78	0.84148	-0.9181	0.1131	1.75
79	0.43742	-0.5577	0.1622	21.76
80	0.80562	-1.4437	0.0586	35.25
81	1.44329	-1.4204	0.1872	41.58
82	0.82225	-1.9241	0.0723	16.86
83	0.73020	0.1492	0.2241	2.66
84	0.88779	0.2409	0.1381	17.27
85	0.83356	-0.4780	0.1742	17.24
86	1.49050	-1.5680	0.1269	32.89
87	0.90606	-1.2852	0.2586	3.20
88	0.59441	-1.4527	0.1622	27.67
89	1.43221	-1.8097	0.3124	23.64
90	0.95258	-1.3121	0.0426	16.91
91	1.12585	-0.9560	0.1175	35.36
92	0.53885	-0.4685	0.1622	28.99
93	1.32977	0.8627	0.1683	57.57

M1=72.7323, M2=588.9473, N=47092, Critical Z=125.58

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.10317	-4.6804				1.53
2	A	0.81466	1.6037				21.35
2	B	0.76759	-1.1233				30.80
2	C	1.16446	-0.6150				44.34
2	D	0.79268	-3.2724				0.26
2	E	0.69582	-0.7417				75.21
2	F	1.16921	-1.0422				3.51
3	A	1.80318	-5.4482	-4.2759	-1.3457	3.5888	231.20
3	B	1.90517	-6.8485	-4.4371	-1.3061	3.7564	62.75
3	C	1.95952	-7.3332	-2.7103			31.55
27		1.00311	-1.3223	-2.6114	0.1480	2.3314	78.66
74		0.78875	-1.6266	-2.5900	-0.4376	1.3235	87.61
94		1.00890	-2.3549	-2.5310	0.4915	2.2622	91.87

M1=72.7323, M2=588.9473, N=47092, Critical Z=125.58

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

Item	a	b	c	Fit-Z
1	0.37441	-0.9289	0.2000	42.11
2	1.26174	0.9187	0.1078	3.51
3	0.96469	1.6889	0.1675	6.37
4	0.80424	-1.1455	0.1021	14.49
6	1.05422	-0.3429	0.3018	10.07
7	1.48894	1.2922	0.3775	11.31
8	0.90936	2.1275	0.2955	11.09
9	1.23316	1.6245	0.0300	26.12
11	1.24001	-0.0379	0.2963	5.57
13	1.09560	1.6273	0.2177	8.78
15	0.60872	-0.0714	0.3594	16.56
16	0.26083	-0.4533	0.2000	13.13
17	0.66361	-1.6428	0.2000	12.72
18	0.79698	1.0575	0.2755	3.91
19	1.31970	0.9192	0.0504	18.56
21	1.26029	1.2237	0.1247	3.96
22	0.21954	-1.4168	0.2000	13.48
23	0.94222	1.4260	0.3084	10.94
25	1.76471	1.5613	0.0954	162.02
26	0.69512	-0.6851	0.2289	12.76
28	1.14601	0.9898	0.0931	14.35
29	0.83982	-0.2594	0.2313	4.12
30	0.79223	2.5955	0.1377	109.00
32	1.30845	1.6969	0.1669	20.23
33	0.92702	0.5591	0.3200	10.00
35	0.48225	0.2176	0.1150	13.77
36	1.41537	-0.0473	0.1382	7.57
37	1.65799	1.8141	0.2015	251.57
38	0.82945	-0.3513	0.1449	5.51
39	1.33974	0.0970	0.1505	80.60
41	0.76820	0.7284	0.2198	7.38
42	1.08487	0.5957	0.1060	2.69
43	0.40719	-0.0919	0.1935	24.19
44	0.86040	1.0544	0.2159	3.39
46	1.00799	0.2519	0.1995	6.89
47	1.56358	1.4471	0.2203	5.15
48	1.00765	1.5708	0.0858	17.07
50	1.03611	0.5046	0.4831	5.47
52	1.60231	1.5426	0.1004	18.45
53	0.62590	1.2110	0.2255	25.48
54	1.35699	0.5351	0.1364	20.11
56	0.79014	1.3554	0.1798	1.40
57	0.57161	-0.0677	0.0619	100.77
58	0.81910	0.1291	0.2516	8.04
59	1.05640	0.5322	0.0604	35.29

M1=62.8065, M2=592.3650, N=55031, Critical Z=146.75

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

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.92244	-0.3090	0.9041			136.26
10		1.21878	1.5055	1.6471	2.1587		15.13
12		1.18486	-0.9195	0.8456			151.36
14		1.17482	0.5451	2.6643	1.1063		163.44
20		1.43261	0.5183	0.6197	1.5495	2.4340	55.84
24		1.21670	1.8083	0.4571			24.83
27		0.92711	0.9752	2.2122	-0.7212		92.08
31		0.48209	-1.1654	-0.1902			124.89
34		0.94572	-1.8996	-0.8508	0.9144		65.59
40		1.17920	-2.9369	-0.1376	2.3338	1.1515	35.50
45		1.17475	-0.4431	1.4677			608.37
49		1.00204	0.6139	1.7289	-0.2179		127.69
51		1.88013	0.9601	2.5510			59.42
55		1.28551	-1.1328	2.0205	3.3791		110.30
60		0.92412	-0.1296	0.9880	0.5824	1.5652	212.70

M1=62.8065, M2=592.3650, N=55031, Critical Z=146.75

**Table 145. Item Parameter and Fit Summary, Multiple-Choice Items,  
Grade 10 English Science**

Item	a	b	c	Fit-Z
1	0.64771	1.6892	0.1053	1.81
2	0.84632	1.0245	0.3680	2.06
3	0.66985	1.5153	0.2759	3.46
4	1.02859	-0.6880	0.3421	6.84
5	0.72896	0.4352	0.0871	17.74
6	0.72688	-1.2023	0.2091	17.38
8	1.32078	1.3242	0.2729	9.02
9	0.73368	-0.1126	0.2096	1.45
10	1.12394	0.3561	0.3933	6.24
12	1.14612	1.1249	0.2612	4.16
13	1.10590	-0.0571	0.2018	11.40
14	0.62554	1.1346	0.1494	7.79
15	0.82739	1.1856	0.4133	20.88
16	0.37691	-0.0168	0.0827	3.82
18	0.61180	1.3588	0.2373	10.03
19	0.74494	-0.5223	0.2132	18.77
20	0.86112	-0.2399	0.3318	0.70
21	0.83752	1.4705	0.1941	34.24
28	1.29223	1.9613	0.4994	8.98
30	0.47088	0.4309	0.0947	6.66
32	1.30211	1.7489	0.1151	51.58
33	1.05314	-0.5493	0.3150	8.97
35	0.84222	0.8968	0.1766	21.65
37	0.67044	1.5680	0.1380	1.48
38	0.60772	-1.2151	0.2091	86.44
39	1.03511	1.8100	0.3649	25.11
41	0.96671	-1.7467	0.2000	20.41
42	1.67069	2.3729	0.3977	40.95
43	1.66495	1.1591	0.2540	49.75
45	0.83468	-1.4816	0.2000	17.54
46	0.36490	0.5983	0.2000	27.12
48	0.35797	1.4197	0.2000	15.23
49	0.49881	-0.8077	0.2000	18.65
50	1.17178	0.9155	0.2203	11.27
51	1.17361	0.8819	0.0989	25.19
53	0.89208	-0.1957	0.1036	5.36
54	0.78370	-1.3691	0.2000	10.31
55	0.77344	0.3406	0.3188	5.36
56	0.61385	0.5077	0.1641	8.85
57	1.23337	0.9025	0.2358	30.26
58	1.02347	-0.2434	0.2039	3.29
59	0.71390	0.8546	0.3464	2.96
61	0.58717	-0.1440	0.2147	4.74
62	0.80956	-0.7254	0.2814	9.45
63	0.71653	-0.9448	0.0878	3.09
65	0.62159	-1.5195	0.2000	10.44
66	0.56456	2.0776	0.1372	1.02

continued



**Table 145. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 English Science (Concluded)**

Item	a	b	c	Fit-Z
67	0.55898	-0.8173	0.2000	10.65
69	0.45094	0.8033	0.0854	1.93
70	0.70672	-0.2660	0.0884	15.80
71	0.53374	1.3349	0.2012	1.51
72	0.54479	-0.2814	0.1172	9.32
73	1.16517	-1.1956	0.1177	31.37
75	0.83394	-0.9530	0.0961	25.07
76	1.19178	0.9152	0.2050	7.42
77	0.61372	0.1205	0.3534	3.03
79	0.99677	-0.2984	0.1521	14.71
81	0.32802	-0.5243	0.0000	20.72
83	0.74734	0.8280	0.2844	4.96

M1=54.5753, M2=508.4640, N=54980, Critical Z=146.61

**Table 146. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 English Science**

Item	Part	f	g1	g2	g3	g4	Fit-Z
7		0.99790	1.3006				36.90
17		1.04441	0.1357	0.9231			10.51
22		0.54396	-0.3392	-0.4198	-0.3534	-0.1515	24.40
23		0.60231	0.5448	-0.6408			27.50
24		0.91838	-0.5089	0.4407			238.54
25		0.62535	0.5498				8.01
26		0.96830	0.8182				13.89
27		0.63415	0.6813				54.19
29		1.29605	-0.9950				80.32
31		0.68145	-0.9335	0.6281			165.52
34		0.56081	-0.4852				16.29
36		0.57760	0.5628	1.3573			11.80
40		0.87537	-0.5350	0.6936			29.95
44		1.17148	0.5479	1.0218			23.05
47		0.74193	-1.5674	-1.0810			11.78
52		1.08198	1.6342	1.6211			29.94
60		1.01367	-0.2194	1.0548			37.18
64		1.09710	-0.0415				3.73
68		0.84207	0.0270	1.1598			7.90
74		0.41725	-0.3521	-0.1560			6.58
78		1.12743	-1.5681	-1.7189			79.50
80		1.37883	1.9778	3.6271			10.72
82		1.30755	-0.9180				57.36

M1=54.5753, M2=508.4640, N=54980, Critical Z=146.61

**Table 147. Correlations Between the Reference and New Form Item Parameters for the 2009 CSAP Administration**

Content Area	Grade	Discrimination (a)	Difficulty (b)	Guessing (c)	p-Value (p)
Reading	3	0.91	0.99	0.63	1.00
Reading	4	0.97	0.98	0.91	0.98
Reading	5	0.96	0.99	0.94	0.98
Reading	6	0.92	0.98	0.79	0.99
Reading	7	0.99	0.99	0.95	0.99
Reading	8	0.99	0.98	0.84	0.99
Reading	9	0.98	0.98	0.76	0.99
Reading	10	0.98	0.96	0.79	0.99
Writing	3	0.96	0.99	0.87	0.99
Writing	4	0.98	0.99	0.89	0.99
Writing	5	0.96	0.98	0.62	0.99
Writing	6	0.97	0.97	0.82	0.99
Writing	7	0.96	1.00	0.86	1.00
Writing	8	0.97	0.97	0.57	0.99
Writing	9	0.98	0.98	0.89	0.99
Writing	10	0.99	0.99	0.64	1.00
Mathematics	3	0.99	0.99	0.89	0.99
Mathematics	4	0.93	1.00	0.90	0.99
Mathematics	5	0.98	0.98	0.88	0.99
Mathematics	6	0.97	0.96	0.92	0.99
Mathematics	7	0.99	0.99	0.92	0.99
Mathematics	8	0.99	0.99	0.87	0.99
Mathematics	9	0.97	0.99	0.96	1.00
Mathematics	10	0.98	0.99	0.95	0.99
Science	5	0.97	0.98	0.78	0.99
Science	8	0.93	0.98	0.82	0.99
Science	10	0.99	0.94	0.86	0.99
Reading Spanish	3	0.81	0.98	0.54	0.99

Note: Grade 4 Spanish Reading and Grades 3 and 4 Spanish Writing were pre-equated.

**Table 148. Scaling Constants Across Grades and Content Areas for Two Administrations**

Content Area	Grade	2008		2009	
		Multiplicative	Additive	Multiplicative	Additive
Reading	3	64.3	562.5	59.63	569.4
Reading	4	49.4	591.5	55.18	596.1
Reading	5	58.6	620.6	56.32	625.5
Reading	6	56.2	637.6	56.40	632.3
Reading	7	55.6	646.9	56.24	647.0
Reading	8	53.8	659.8	50.70	655.5
Reading	9	49.8	667.5	45.73	666.0
Reading	10	51.6	690.9	44.07	694.2
Writing	3	45.6	463.7	43.59	471.2
Writing	4	46.5	487.0	45.59	488.5
Writing	5	52.1	512.7	48.28	513.2
Writing	6	54.6	528.7	52.79	531.2
Writing	7	63.1	553.4	61.20	561.9
Writing	8	69.8	559.9	61.33	562.2
Writing	9	71.7	563.7	69.30	568.7
Writing	10	80.3	576.0	72.73	588.9
Mathematics	3	78.0	473.8	73.66	467.6
Mathematics	4	65.1	505.2	68.47	501.6
Mathematics	5	61.2	534.9	67.71	524.9
Mathematics	6	64.8	546.5	66.55	551.7
Mathematics	7	62.3	560.4	61.74	569.5
Mathematics	8	62.1	578.4	53.03	580.1
Mathematics	9	60.1	578.6	62.11	567.6
Mathematics	10	60.7	592.1	62.81	592.4
Science	5	55.3	503.9	57.13	507.2
Science	8	52.8	509.0	53.41	510.8
Science	10	53.1	504.4	54.58	508.5
Reading Spanish	3	36.8	521.6	39.29	528.5
Reading Spanish	4	_*	_*	_*	_*
Writing Spanish	3	64.2	501.5	_*	_*
Writing Spanish	4	_*	_*	_*	_*

\*Grade 4 Spanish Reading and Grades 3 and 4 Spanish Writing were pre-equated.

**Table 149. 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	17	100.0
		Total	Total Test	40	100.0
			Anchor Set	17	100.0
Reading	4	CS 1	Total Test	28	40.0
			Anchor Set	5*	31.3
		CS 4	Total Test	13	18.6
			Anchor Set	4	25.0
		CS 5	Total Test	17	24.3
			Anchor Set	4	25.0
		CS 6	Total Test	12	17.1
			Anchor Set	3	18.8
		Total	Total Test	70	100.0
			Anchor Set	16	100.0
Reading	5	CS 1	Total Test	22*	31.9
			Anchor Set	6	27.3
		CS 4	Total Test	19	27.5
			Anchor Set	6	27.3
		CS 5	Total Test	17	24.6
			Anchor Set	6	27.3
		CS 6	Total Test	11	15.9
			Anchor Set	4	18.2
		Total	Total Test	69	100.0
			Anchor Set	22	100.0
Reading	6	CS 1	Total Test	24	34.3
			Anchor Set	5	26.3
		CS 4	Total Test	19	27.1
			Anchor Set	5	26.3
		CS 5	Total Test	15	21.4
			Anchor Set	5	26.3
		CS 6	Total Test	12	17.1
			Anchor Set	4	21.1
		Total	Total Test	70	100.0
			Anchor Set	19	100.0
Reading	7	CS 1	Total Test	23	33.3
			Anchor Set	6	28.6
		CS 4	Total Test	17*	24.6
			Anchor Set	4*	19.0
		CS 5	Total Test	16	23.2
			Anchor Set	6	28.6
		CS 6	Total Test	13	18.8
			Anchor Set	5	23.8
		Total	Total Test	69	100.0
			Anchor Set	21	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 149. CSAP Item and Anchor Count by Content Standard for  
Final Calibration Sample: Reading (Concluded)**

<b>Content Area</b>	<b>Grade</b>	<b>Content Standard</b>	<b>Item Set</b>	<b>No. of Items</b>	<b>Percentage</b>
Reading	8	CS 1	Total Test	25	35.7
			Anchor Set	7	33.3
		CS 4	Total Test	17	24.3
			Anchor Set	4	19.0
		CS 5	Total Test	14	20.0
			Anchor Set	5	23.8
		CS 6	Total Test	14	20.0
			Anchor Set	5	23.8
		Total	Total Test	70	100.0
			Anchor Set	21	100.0
Reading	9	CS 1	Total Test	21	30.4
			Anchor Set	5	25.0
		CS 4	Total Test	13	18.8
			Anchor Set	5	25.0
		CS 5	Total Test	18*	26.1
			Anchor Set	5	25.0
		CS 6	Total Test	17	24.6
			Anchor Set	5	25.0
		Total	Total Test	69	100.0
			Anchor Set	20	100.0
Reading	10	CS 1	Total Test	23	32.9
			Anchor Set	7	28.0
		CS 4	Total Test	13	18.6
			Anchor Set	5	20.0
		CS 5	Total Test	19	27.1
			Anchor Set	8	32.0
		CS 6	Total Test	15	21.4
			Anchor Set	5	20.0
		Total	Total Test	70	100.0
			Anchor Set	25	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 150. 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	20.5
			Anchor Set	2	13.3
		CS 2/3	Total Test	10*	25.6
			Anchor Set	4*	26.7
		CS 4/5	Total Test	14	35.9
			Anchor Set	7	46.7
		CS 6	Total Test	7	17.9
			Anchor Set	2	13.3
		Total	Total Test	39	100.0
			Anchor Set	15	100.0
Mathematics	4	CS 1	Total Test	12	17.6
			Anchor Set	3	15.8
		CS 2	Total Test	10*	14.7
			Anchor Set	2	10.5
		CS 3	Total Test	11	16.2
			Anchor Set	4	21.1
		CS 4/5	Total Test	21	30.9
			Anchor Set	8	42.1
		CS 6	Total Test	14	20.6
			Anchor Set	2	10.5
Mathematics	5	CS 1	Total Test	16	23.5
			Anchor Set	5	26.3
		CS 2	Total Test	12	17.6
			Anchor Set	3	15.8
		CS 3	Total Test	10*	14.7
			Anchor Set	2	10.5
		CS 4/5	Total Test	15	22.1
			Anchor Set	6	31.6
		CS 6	Total Test	15	22.1
			Anchor Set	3	15.8
		Total	Total Test	68	100.0
			Anchor Set	19	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 150. 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	20.3
			Anchor Set	4	21.1
		CS 2	Total Test	9*	15.3
			Anchor Set	2	10.5
		CS 3	Total Test	11	18.6
			Anchor Set	3	15.8
		CS 4/5	Total Test	16	27.1
			Anchor Set	5	26.3
		CS 6	Total Test	11	18.6
			Anchor Set	5	26.3
		Total	Total Test	59	100.0
			Anchor Set	19	100.0
Mathematics	7	CS 1/6	Total Test	19	31.7
			Anchor Set	7	28.9
		CS 2	Total Test	12	20.0
			Anchor Set	2	11.1
		CS 3	Total Test	12	20.0
			Anchor Set	4	22.2
		CS 4/5	Total Test	17	28.3
			Anchor Set	5	27.8
		Total	Total Test	60	100.0
			Anchor Set	18	100.0
Mathematics	8	CS 1/6	Total Test	15	25.0
			Anchor Set	5	26.3
		CS 2	Total Test	14	23.3
			Anchor Set	5	26.3
		CS 3	Total Test	12	20.0
			Anchor Set	3	15.8
		CS 4/5	Total Test	19	31.7
			Anchor Set	6	31.6
		Total	Total Test	60	100.0
			Anchor Set	19	100.0
Mathematics	9	CS 1/6	Total Test	13	21.7
			Anchor Set	5	25.0
		CS 2	Total Test	17	28.3
			Anchor Set	6	30.0
		CS 3	Total Test	14	23.3
			Anchor Set	3	15.0
		CS 4/5	Total Test	16	26.7
			Anchor Set	6	30.0
		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 150. 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	14	23.3
			Anchor Set	4	20.0
		CS 2	Total Test	17	28.3
			Anchor Set	7	35.0
		CS 3	Total Test	15	25.0
			Anchor Set	3	15.0
		CS 4/5	Total Test	14	23.3
			Anchor Set	6	30.0
		Total	Total Test	60	100.0
			Anchor Set	20	100.0



**Table 151. 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	7	35.0
		CS 3	Total Test	32	60.4
			Anchor Set	13	65.0
		Total	Total Test	53	100.0
			Anchor Set	20	100.0
Writing	4	CS 2	Total Test	21	39.6
			Anchor Set	9	42.9
		CS 3	Total Test	32	60.4
			Anchor Set	12	57.1
		Total	Total Test	53	100.0
			Anchor Set	21	100.0
Writing	5	CS 2	Total Test	20*	38.5
			Anchor Set	9	42.9
		CS 3	Total Test	32	61.5
			Anchor Set	12	57.1
		Total	Total Test	52	100.0
			Anchor Set	21	100.0
Writing	6	CS 2	Total Test	21	39.6
			Anchor Set	10	47.6
		CS 3	Total Test	32	60.4
			Anchor Set	11	52.4
		Total	Total Test	53	100.0
			Anchor Set	21	100.0
Writing	7	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	8	CS 2	Total Test	21	39.6
			Anchor Set	10	47.6
		CS 3	Total Test	32	60.4
			Anchor Set	11	52.4
		Total	Total Test	53	100.0
			Anchor Set	21	100.0
Writing	9	CS 2	Total Test	21	39.6
			Anchor Set	9	42.9
		CS 3	Total Test	32	60.4
			Anchor Set	12	57.1
		Total	Total Test	53	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: Writing (Concluded)**

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Writing	10	CS 2	Total Test	21	39.6
			Anchor Set	9	42.9
		CS 3	Total Test	32	60.4
			Anchor Set	12	57.1
		Total	Total Test	53	100.0
			Anchor Set	21	100.0

**Table 152. 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 1/5	Total Test	29*	39.2
			Anchor Set	8	40.0
		CS 2	Total Test	15	20.3
			Anchor Set	4	20.0
		CS 3	Total Test	14	18.9
			Anchor Set	4	20.0
		CS 4	Total Test	16	21.6
			Anchor Set	4	20.0
		Total	Total Test	74	100.0
			Anchor Set	20	100.0
Science	8	CS 1/5	Total Test	34	41.0
			Anchor Set	8	40.0
		CS 2	Total Test	17	20.5
			Anchor Set	4	20.0
		CS 3	Total Test	15	18.1
			Anchor Set	4	20.0
		CS 4	Total Test	17	20.5
			Anchor Set	4	20.0
		Total	Total Test	83	100.0
			Anchor Set	20	100.0
Science	10	CS 1/5	Total Test	29*	35.4
			Anchor Set	6	31.6
		CS 2	Total Test	17	20.7
			Anchor Set	4	21.1
		CS 3	Total Test	18	22.0
			Anchor Set	5	26.3
		CS 4	Total Test	18	22.0
			Anchor Set	4	21.1
		Total	Total Test	82	100.0
			Anchor Set	19	100.0

\* Content area in which item(s) were removed from calibration.

Count shown in this table does not include removed items.

**Table 153. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading and 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
		CS 3	Total Test	32	60.4
		Total	Total Test	53	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 3 Spanish Writing and Grade 4 Spanish Reading and Writing were pre-equated and did not use anchor items.

**Table 154. 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	29245	566	74.1	570	30595	552	81.5	560	59840	558	78.3	565
	4	29169	593	64.1	600	30379	579	71.4	590	59552	586	68.3	595
	5	28938	617	65.5	623	29819	604	73.0	614	58761	611	69.7	619
	6	28243	634	64.8	642	29355	621	71.8	632	57601	627	68.7	637
	7	28091	647	63.3	653	29294	631	70.2	641	57386	638	67.4	647
	8	27790	656	56.6	660	29293	639	60.8	646	57087	647	59.4	653
	9	28733	666	49.6	671	30188	652	57.2	659	58923	659	54.1	665
	10	27238	694	49.5	698	28459	676	58.3	683	55723	685	55.0	690
Spanish Reading	3	727	528	46.1	533	635	517	50.1	518	1362	523	48.3	526
	4	87	523	52.2	530	79	511	47.6	518	166	517	50.2	522
Writing	3	29279	476	50.8	476	30652	461	51.7	463	59933	468	51.8	469
	4	29161	493	52.5	493	30383	477	51.5	478	59548	485	52.7	485
	5	28940	518	54.6	518	29841	497	54.0	499	58785	508	55.3	509
	6	28130	540	57.5	540	29246	516	59.2	518	57379	528	59.5	529
	7	28097	574	66.4	574	29297	543	66.5	544	57395	558	68.2	559
	8	27799	577	66.2	575	29297	545	66.7	547	57100	560	68.4	560
	9	28741	582	74.3	580	30196	551	76.2	553	58939	566	76.9	567
	10	27282	596	78.7	596	28510	562	79.6	563	55818	579	81.0	579
Spanish Writing	3	721	533	68.2	536	630	509	68.8	508	1351	522	69.4	521
	4	87	517	45.0	520	79	499	46.7	506	166	509	46.7	515
Mathematics	3	30003	458	86.3	458	31293	460	87.9	460	61298	459	87.1	459
	4	29290	492	78.4	494	30526	492	82.2	496	59818	492	80.4	495
	5	28957	515	75.3	519	29879	515	80.7	521	58839	515	78.1	520
	6	28268	540	75.4	542	29414	540	80.3	546	57683	540	77.9	544
	7	28084	562	70.8	567	29308	561	76.3	566	57393	561	73.6	566
	8	27803	573	59.2	576	29329	573	65.6	577	57138	573	62.6	577
	9	28789	569	71.7	577	30257	568	79.5	576	59050	568	75.8	576
	10	27316	586	69.3	591	28582	588	76.6	596	55910	587	73.2	593
Science	5	28946	493	62.6	497	29862	499	67.1	502	58812	496	65.0	499
	8	27780	498	59.4	503	29299	500	65.3	508	57084	499	62.5	505
	10	27303	498	58.8	505	28553	502	66.2	512	55861	500	62.7	508

**Table 155. 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	558	78.3	565	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	558	78.3	565
Reading	4	587	78.6	595	.	.	.	.	.	.	581	102.9	596	583	95.6	595	591	87.6	595	586	68.3	595
Reading	5	612	81.5	618	.	.	.	.	.	.	608	99.5	620	612	100.4	619	612	82.5	618	611	69.7	619
Reading	6	627	77.7	637	.	.	.	.	.	.	633	94.8	637	625	92.1	636	620	94.1	637	627	68.7	637
Reading	7	639	75.6	646	.	.	.	.	.	.	641	84.2	648	637	92.0	647	640	89.8	647	638	67.4	647
Reading	8	649	68.8	652	.	.	.	.	.	.	648	76.3	654	651	79.5	651	646	75.1	654	647	59.4	653
Reading	9	659	63.1	665	.	.	.	.	.	.	657	69.3	666	657	82.9	664	659	68.6	664	659	54.1	665
Reading	10	685	64.5	690	.	.	.	.	.	.	678	81.7	692	689	80.7	691	687	74.2	689	685	55.0	690
Spanish Reading	3	523	48.3	526	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	523	48.3	526
Spanish Reading	4	519	52.9	524	.	.	.	.	.	.	507	63.2	521	521	70.9	528	514	58.3	517	517	50.2	522
Writing	3	.	.	.	469	59.0	470	481	77.6	469	.	.	.	.	.	.	.	.	.	468	51.8	469
Writing	4	.	.	.	486	57.7	485	492	69.8	486	.	.	.	.	.	.	.	.	.	485	52.7	485
Writing	5	.	.	.	509	61.0	508	511	64.3	509	.	.	.	.	.	.	.	.	.	508	55.3	509
Writing	6	.	.	.	529	65.5	528	531	70.6	530	.	.	.	.	.	.	.	.	.	528	59.5	529
Writing	7	.	.	.	561	75.0	557	561	78.4	559	.	.	.	.	.	.	.	.	.	558	68.2	559
Writing	8	.	.	.	562	74.6	560	565	80.9	561	.	.	.	.	.	.	.	.	.	560	68.4	560
Writing	9	.	.	.	568	84.2	567	569	85.9	568	.	.	.	.	.	.	.	.	.	566	76.9	567
Writing	10	.	.	.	581	88.5	578	581	91.5	580	.	.	.	.	.	.	.	.	.	579	81.0	579
Spanish Writing	3	.	.	.	532	75.5	535	518	80.3	515	.	.	.	.	.	.	.	.	.	522	69.4	521
Spanish Writing	4	.	.	.	502	51.9	505	513	48.8	518	.	.	.	.	.	.	.	.	.	509	46.7	515
Mathematics	3	467	122.6	463	477	125.4	461	.	.	.	467	104.1	458	.	.	.	465	112.4	462	459	87.1	459
Mathematics	4	501	104.0	496	511	126.7	495	500	110.6	495	496	94.2	496	.	.	.	515	128.3	498	492	80.4	495
Mathematics	5	519	94.4	520	520	101.4	520	519	95.0	518	514	96.4	520	.	.	.	524	99.3	521	515	78.1	520
Mathematics	6	532	111.9	544	548	103.4	547	542	95.8	545	541	92.7	545	.	.	.	541	116.2	545	540	77.9	544
Mathematics	7	562	84.6	567	565	96.0	567	557	91.3	566	558	87.6	567	.	.	.	.	.	.	561	73.6	566
Mathematics	8	566	86.0	578	573	78.0	577	572	80.2	577	570	72.4	577	.	.	.	.	.	.	573	62.6	577
Mathematics	9	553	107.5	577	568	81.4	576	566	86.2	576	554	101.4	574	.	.	.	.	.	.	568	75.8	576
Mathematics	10	580	93.5	594	583	85.0	594	586	83.2	593	582	86.3	591	.	.	.	.	.	.	587	73.2	593
Science	5	498	73.6	500	499	85.8	500	500	81.1	501	499	77.9	499	.	.	.	.	.	.	496	65.0	499
Science	8	500	66.6	506	492	84.9	505	497	73.0	503	493	81.6	504	.	.	.	.	.	.	499	62.5	505
Science	10	501	67.8	509	492	84.3	507	496	78.1	507	499	74.1	507	.	.	.	.	.	.	500	62.7	508

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

Content Area		Grade	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	560	88.8	566	557	95.6	567	591	137.0	569	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	558	78.3	565				
Reading	4	587	74.9	595	580	98.5	596	636	173.2	593	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	586	68.3	595				
Reading	5	612	79.5	619	609	81.2	619	627	127.2	621	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	611	69.7	619				
Reading	6	624	80.7	637	627	86.9	637	654	127.4	637	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	627	68.7	637				
Reading	7	640	79.4	648	630	121.1	647	650	113.7	649	640	90.4	647	.	.	.	.	.	.	.	.	.	.	.	.	638	67.4	647				
Reading	8	647	68.3	655	649	78.7	653	660	111.3	655	637	124.8	655	.	.	.	.	.	.	.	.	.	.	.	.	647	59.4	653				
Reading	9	669	96.0	666	658	61.8	666	660	79.5	665	652	87.8	664	.	.	.	.	.	.	.	.	.	.	.	.	659	54.1	665				
Reading	10	685	66.3	691	678	80.7	691	700	103.5	693	719	155.0	695	.	.	.	.	.	.	.	.	.	.	.	.	685	55.0	690				
Spanish Reading	3	523	60.0	526	523	64.6	526	523	72.7	528	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	523	48.3	526				
Spanish Reading	4	515	52.9	521	517	57.7	522	519	81.1	523	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	517	50.2	522				
Writing	3	.	.	.	.	.	.	.	.	.	471	60.8	471	.	.	.	.	.	.	491	99.9	471	509	114.5	472	468	51.8	469				
Writing	4	.	.	.	.	.	.	.	.	.	487	64.0	485	504	106.7	527	499	86.6	487	511	115.4	490	511	115.4	490	485	52.7	485				
Writing	5	.	.	.	.	.	.	.	.	.	510	65.9	509	536	117.3	532	515	79.9	510	513	85.2	510	513	85.2	510	508	55.3	509				
Writing	6	.	.	.	.	.	.	.	.	.	530	73.9	528	545	114.9	576	530	78.6	531	545	108.7	531	545	108.7	531	528	59.5	529				
Writing	7	.	.	.	.	.	.	.	.	.	562	84.1	557	575	118.3	622	565	90.7	560	567	102.5	560	567	102.5	560	558	68.2	559				
Writing	8	.	.	.	.	.	.	.	.	.	564	87.3	559	582	116.2	587	568	96.0	563	579	121.2	563	579	121.2	563	560	68.4	560				
Writing	9	.	.	.	.	.	.	.	.	.	572	95.9	567	590	130.3	616	569	103.3	568	570	107.6	568	570	107.6	568	566	76.9	567				
Writing	10	.	.	.	.	.	.	.	.	.	584	102.3	578	596	119.7	638	583	100.1	582	588	117.0	581	588	117.0	581	579	81.0	579				
Spanish Writing	3	.	.	.	.	.	.	.	.	.	560	91.7	561	.	.	.	516	94.4	511	524	122.6	511	524	122.6	511	522	69.4	521				
Spanish Writing	4	.	.	.	.	.	.	.	.	.	509	58.6	515	510	92.4	517	514	72.4	514	501	68.7	509	501	68.7	509	509	46.7	515				
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	459	87.1	459				
Mathematics	4	501	102.8	496	516	135.6	497	516	135.1	497	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	492	80.4	495				
Mathematics	5	522	100.8	520	524	110.7	521	527	112.2	509	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	515	78.1	520				
Mathematics	6	533	109.3	543	551	107.7	544	543	106.0	545	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	540	77.9	544				
Mathematics	7	569	130.4	565	558	100.1	563	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	561	73.6	566				
Mathematics	8	571	89.1	576	564	90.3	578	568	76.5	575	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	573	62.6	577				
Mathematics	9	569	82.1	576	551	106.3	575	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	568	75.8	576				
Mathematics	10	586	79.9	595	568	121.7	587	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	587	73.2	593				
Science	5	505	95.7	501	501	95.5	498	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	496	65.0	499				
Science	8	498	78.3	507	501	75.2	506	491	89.1	505	497	74.2	504	494	85.7	504	.	.	.	.	.	.	.	.	.	499	62.5	505				
Science	10	501	79.6	510	509	91.1	508	.	.	.	493	106.0	507	492	88.3	507	499	84.7	506	.	.	.	.	.	.	500	62.7	508				

**Table 157. Raw Score Descriptive Statistics by Content Standard**

		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.
Content Area	Grade																												
Reading	3	32	8.7	33	61.5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	32	8.7	33	61.5	
Reading	4	23	6.8	24	61.9	.	.	.	.	.	.	.	.	10	3.9	11	58.2	11	3.5	11	58.8	11	3.5	12	63.2	55	16.2	58	60.8
Reading	5	19	6.0	20	63.5	.	.	.	.	.	.	.	.	13	3.9	13	63.8	12	4.3	13	62.2	12	3.7	13	60.8	56	16.4	59	62.7
Reading	6	19	5.9	20	60.3	.	.	.	.	.	.	.	.	13	4.2	14	66.8	11	4.2	12	57.2	9	3.9	9	44.0	52	16.5	55	57.5
Reading	7	18	5.9	19	58.6	.	.	.	.	.	.	.	.	13	3.6	13	66.0	12	4.0	13	59.4	12	4.0	13	61.1	55	15.9	57	60.9
Reading	8	20	5.8	21	64.8	.	.	.	.	.	.	.	.	13	3.5	13	63.0	13	4.1	13	64.1	11	3.8	11	52.8	56	15.5	58	61.6
Reading	9	19	5.7	19	59.9	.	.	.	.	.	.	.	.	11	3.7	11	55.1	12	4.3	13	61.3	13	4.4	13	54.7	54	16.5	56	57.9
Reading	10	18	6.1	19	58.8	.	.	.	.	.	.	.	.	11	4.2	11	54.1	14	4.4	14	64.9	14	4.9	15	62.3	57	18.0	59	60.0
Spanish Reading	3	31	10.1	32	58.9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	31	10.1	32	58.9	
Spanish Reading	4	21	7.6	21	56.9	.	.	.	.	.	.	.	.	8	3.5	8	45.6	9	3.8	9	49.9	8	3.5	8	44.2	46	16.7	46	50.8
Writing	3	.	.	.	.	18	3.7	18	73.2	26	6.0	28	80.9	.	.	.	.	.	.	.	.	.	.	.	43	9.2	46	77.5	
Writing	4	.	.	.	.	25	5.3	25	68.6	25	5.8	27	77.3	.	.	.	.	.	.	.	.	.	.	.	50	10.5	53	72.7	
Writing	5	.	.	.	.	23	5.5	24	66.1	24	5.8	25	72.0	.	.	.	.	.	.	.	.	.	.	.	47	10.5	49	68.9	
Writing	6	.	.	.	.	24	5.0	25	67.1	23	5.8	24	69.4	.	.	.	.	.	.	.	.	.	.	.	47	10.2	48	68.1	
Writing	7	.	.	.	.	25	5.3	26	69.1	22	5.7	23	68.1	.	.	.	.	.	.	.	.	.	.	.	47	10.4	49	68.6	
Writing	8	.	.	.	.	25	5.1	26	69.2	24	5.5	25	71.7	.	.	.	.	.	.	.	.	.	.	.	49	9.9	50	70.4	
Writing	9	.	.	.	.	25	5.7	26	68.2	22	6.2	22	65.4	.	.	.	.	.	.	.	.	.	.	.	46	11.3	48	66.9	
Writing	10	.	.	.	.	25	5.6	26	69.8	21	6.1	22	64.3	.	.	.	.	.	.	.	.	.	.	.	46	11.0	48	67.1	
Spanish Writing	3	.	.	.	.	17	4.4	18	69.9	24	5.7	25	74.5	.	.	.	.	.	.	.	.	.	.	.	41	9.5	42	72.5	
Spanish Writing	4	.	.	.	.	18	5.6	18	51.5	19	6.3	19	54.8	.	.	.	.	.	.	.	.	.	.	.	37	10.8	38	53.2	
Mathematics	3	7	2.4	7	66.5	9	2.9	9	70.9	.	.	.	.	12	3.0	13	72.4	.	.	.	.	7	2.3	7	65.6	34	9.2	35	69.5
Mathematics	4	14	3.5	15	73.4	9	3.0	10	69.9	9	3.1	10	65.2	20	5.5	21	69.6	.	.	.	.	13	3.7	14	75.2	65	16.9	68	70.8
Mathematics	5	12	4.0	12	63.7	12	4.5	13	63.6	11	3.5	11	63.4	12	4.7	12	57.1	.	.	.	.	13	3.6	14	70.9	60	18.3	62	63.5
Mathematics	6	8	4.6	8	48.0	11	3.3	11	68.7	11	3.7	12	63.0	13	4.8	13	59.7	.	.	.	.	8	3.2	8	59.1	51	17.6	52	59.6
Mathematics	7	14	6.0	14	54.7	10	3.7	10	59.3	9	3.9	8	47.5	13	5.5	12	48.3	.	.	.	.	.	.	.	.	45	17.6	45	52.2
Mathematics	8	9	4.9	9	41.5	11	4.4	11	54.2	9	4.2	9	51.0	12	5.3	11	42.5	.	.	.	.	.	.	.	.	41	17.2	39	46.6
Mathematics	9	6	3.8	5	36.1	11	5.3	11	43.5	9	4.2	9	44.7	8	4.8	7	36.9	.	.	.	.	.	.	.	.	35	16.7	32	40.6
Mathematics	10	7	3.3	7	41.8	11	6.2	10	43.0	10	4.2	9	45.1	7	4.3	6	33.2	.	.	.	.	.	.	.	.	35	16.4	32	40.8
Science	5	20	6.1	21	62.8	11	3.6	11	58.5	11	2.7	11	64.0	11	3.0	11	59.5	.	.	.	.	.	.	.	.	52	13.9	54	61.4
Science	8	23	7.7	23	56.6	9	3.5	8	43.7	8	3.4	8	41.1	7	3.5	7	37.4	.	.	.	.	.	.	.	.	47	16.0	47	47.0
Science	10	23	7.5	24	58.6	9	4.0	8	43.3	9	3.7	9	45.9	9	3.6	9	47.1	.	.	.	.	.	.	.	.	50	16.7	51	50.7



**Table 158. 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	14	4.1	14	56.7	11	3.4	11	59.7	8	2.3	8	76.3	.	.	.	.
Reading	4	24	7.1	25	59.8	13	4.9	14	58.0	8	2.1	8	76.1	.	.	.	.
Reading	5	23	6.4	24	65.0	21	7.5	22	57.7	8	2.2	8	68.4	.	.	.	.
Reading	6	20	7.5	21	52.4	13	4.2	13	60.5	8	2.3	8	70.7	.	.	.	.
Reading	7	20	5.8	21	64.4	7	2.7	7	54.5	7	2.5	7	63.4	11	3.7	11	59.1
Reading	8	19	5.4	20	61.6	13	4.3	13	61.0	7	2.3	7	65.5	4	1.8	4	52.2
Reading	9	9	2.6	9	68.1	20	6.6	21	58.4	8	2.8	8	57.3	9	3.4	9	50.6
Reading	10	19	6.4	20	59.6	12	5.3	12	49.6	10	2.8	10	70.2	5	1.9	5	66.7
Spanish Reading	3	15	5.1	16	61.6	9	3.7	9	54.8	7	2.5	7	58.7	.	.	.	.
Spanish Reading	4	18	7.7	18	47.0	13	4.7	13	52.7	7	2.3	7	61.3	.	.	.	.
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	3.9	15	72.5	7	2.3	7	69.2	8	2.2	9	75.2	.	.	.	.
Mathematics	5	10	3.0	10	66.8	10	4.1	11	64.3	7	2.1	7	68.0	.	.	.	.
Mathematics	6	9	4.7	9	49.0	10	2.9	10	69.5	9	3.6	9	59.5	.	.	.	.
Mathematics	7	5	2.7	5	54.6	5	3.1	5	42.3	.	.	.	.	.	.	.	.
Mathematics	8	5	2.5	5	49.3	7	3.7	7	41.9	7	3.6	6	36.9	.	.	.	.
Mathematics	9	10	4.6	10	45.8	8	5.3	6	31.6	.	.	.	.	.	.	.	.
Mathematics	10	10	5.3	9	41.3	3	1.9	3	36.4	.	.	.	.	.	.	.	.
Science	5	11	3.3	11	66.0	8	2.7	8	59.3	.	.	.	.	.	.	.	.
Science	8	9	3.4	9	51.8	12	4.4	13	58.6	6	2.7	6	42.2	.	.	.	.
Science	10	9	3.4	9	55.5	12	4.0	12	64.6	.	.	.	.	5	2.6	5	46.9

**Table 158. 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.
Reading	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	32	8.7	33	61.5		
Reading	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	55	16.2	58	60.8		
Reading	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	56	16.4	59	62.7		
Reading	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	52	16.5	55	57.5		
Reading	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	55	15.9	57	60.9		
Reading	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	56	15.5	58	61.6		
Reading	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	54	16.5	56	57.9		
Reading	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	57	18.0	59	60.0		
Spanish Reading	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	31	10.1	32	58.9		
Spanish Reading	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	46	16.7	46	50.8		
Writing	3	15	3.0	15	73.8	.	.	.	.	12	3.1	13	77.7	11	2.9	13	81.9	43	9.2	46	77.5	
Writing	4	12	3.1	13	63.8	8	1.9	9	73.2	15	3.6	16	77.4	8	2.5	9	73.7	50	10.5	53	72.7	
Writing	5	13	3.5	14	63.8	8	1.9	9	74.9	13	3.3	13	70.5	13	3.7	13	69.5	47	10.5	49	68.9	
Writing	6	11	2.7	12	62.8	8	1.7	9	73.6	17	4.6	17	66.4	9	2.7	10	71.4	47	10.2	48	68.1	
Writing	7	11	2.8	12	63.5	8	1.7	9	72.3	18	4.4	19	71.8	10	3.1	10	66.4	47	10.4	49	68.6	
Writing	8	12	2.7	12	64.3	9	1.5	9	77.8	13	3.4	13	67.5	13	3.4	13	74.5	49	9.9	50	70.4	
Writing	9	13	3.2	14	66.6	8	1.8	9	74.0	14	4.6	15	65.4	10	3.3	11	64.4	46	11.3	48	66.9	
Writing	10	12	3.3	13	64.7	8	1.7	9	73.8	17	5.1	18	67.2	9	2.7	9	65.0	46	11.0	48	67.1	
Spanish Writing	3	11	3.0	12	75.9	.	.	.	.	15	3.7	16	74.5	7	2.4	7	68.7	41	9.5	42	72.5	
Spanish Writing	4	9	3.5	9	48.1	6	2.5	6	56.4	11	4.1	11	58.8	6	2.9	6	45.7	37	10.8	38	53.2	
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	34	9.2	35	69.5		
Mathematics	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	65	16.9	68	70.8		
Mathematics	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	60	18.3	62	63.5		
Mathematics	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	51	17.6	52	59.6		
Mathematics	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	45	17.6	45	52.2		
Mathematics	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	41	17.2	39	46.6		
Mathematics	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	35	16.7	32	40.6		
Mathematics	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	35	16.4	32	40.8		
Science	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	52	13.9	54	61.4		
Science	8	7	3.0	7	39.9	5	2.8	5	38.4	.	.	.	.	.	.	.	47	16.0	47	47.0		
Science	10	6	2.7	6	42.4	6	2.3	6	48.9	.	.	.	.	.	.	.	50	16.7	51	50.7		

**Table 159. Reading Grade 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	492	0.82	492	0.82	292	2	0.00	601	1.00	341	5	0.01	841	1.41
153	2	0.00	494	0.83	293	1	0.00	602	1.01	342	5	0.01	846	1.41
170	1	0.00	495	0.83	294	6	0.01	608	1.02	343	4	0.01	850	1.42
181	1	0.00	496	0.83	295	4	0.01	612	1.02	344	4	0.01	854	1.43
190	1	0.00	497	0.83	296	3	0.01	615	1.03	345	12	0.02	866	1.45
194	2	0.00	499	0.83	297	4	0.01	619	1.03	346	7	0.01	873	1.46
231	1	0.00	500	0.84	298	2	0.00	621	1.04	347	10	0.02	883	1.48
235	3	0.01	503	0.84	299	3	0.01	624	1.04	348	7	0.01	890	1.49
242	1	0.00	504	0.84	300	2	0.00	626	1.05	349	11	0.02	901	1.51
246	1	0.00	505	0.84	301	7	0.01	633	1.06	350	7	0.01	908	1.52
247	1	0.00	506	0.85	302	8	0.01	641	1.07	351	14	0.02	922	1.54
248	1	0.00	507	0.85	303	6	0.01	647	1.08	352	13	0.02	935	1.56
249	2	0.00	509	0.85	304	2	0.00	649	1.08	353	5	0.01	940	1.57
252	3	0.01	512	0.86	305	5	0.01	654	1.09	354	6	0.01	946	1.58
254	3	0.01	515	0.86	306	6	0.01	660	1.10	355	9	0.02	955	1.60
256	1	0.00	516	0.86	307	2	0.00	662	1.11	356	16	0.03	971	1.62
257	2	0.00	518	0.87	308	5	0.01	667	1.11	357	4	0.01	975	1.63
258	1	0.00	519	0.87	309	3	0.01	670	1.12	358	12	0.02	987	1.65
259	2	0.00	521	0.87	310	8	0.01	678	1.13	359	7	0.01	994	1.66
260	2	0.00	523	0.87	311	7	0.01	685	1.14	360	13	0.02	1007	1.68
261	2	0.00	525	0.88	312	5	0.01	690	1.15	361	10	0.02	1017	1.70
262	6	0.01	531	0.89	313	5	0.01	695	1.16	362	10	0.02	1027	1.72
264	2	0.00	533	0.89	314	4	0.01	699	1.17	363	12	0.02	1039	1.74
265	4	0.01	537	0.90	315	5	0.01	704	1.18	364	20	0.03	1059	1.77
267	2	0.00	539	0.90	316	4	0.01	708	1.18	365	6	0.01	1065	1.78
268	2	0.00	541	0.90	317	9	0.02	717	1.20	366	12	0.02	1077	1.80
269	3	0.01	544	0.91	318	3	0.01	720	1.20	367	15	0.03	1092	1.82
270	1	0.00	545	0.91	319	7	0.01	727	1.21	368	11	0.02	1103	1.84
271	5	0.01	550	0.92	320	7	0.01	734	1.23	369	15	0.03	1118	1.87
272	1	0.00	551	0.92	321	4	0.01	738	1.23	370	17	0.03	1135	1.90
273	5	0.01	556	0.93	322	5	0.01	743	1.24	371	16	0.03	1151	1.92
274	1	0.00	557	0.93	323	5	0.01	748	1.25	372	13	0.02	1164	1.95
275	2	0.00	559	0.93	324	8	0.01	756	1.26	373	18	0.03	1182	1.98
276	1	0.00	560	0.94	325	1	0.00	757	1.27	374	16	0.03	1198	2.00
277	3	0.01	563	0.94	326	4	0.01	761	1.27	375	17	0.03	1215	2.03
278	2	0.00	565	0.94	327	7	0.01	768	1.28	376	17	0.03	1232	2.06
279	3	0.01	568	0.95	328	6	0.01	774	1.29	377	24	0.04	1256	2.10
280	3	0.01	571	0.95	329	6	0.01	780	1.30	378	12	0.02	1268	2.12
281	2	0.00	573	0.96	330	6	0.01	786	1.31	379	19	0.03	1287	2.15
282	1	0.00	574	0.96	331	6	0.01	792	1.32	380	13	0.02	1300	2.17
283	2	0.00	576	0.96	332	1	0.00	793	1.33	381	21	0.04	1321	2.21
284	3	0.01	579	0.97	333	3	0.01	796	1.33	382	20	0.03	1341	2.24
285	3	0.01	582	0.97	334	8	0.01	804	1.34	383	8	0.01	1349	2.25
286	2	0.00	584	0.98	335	4	0.01	808	1.35	384	18	0.03	1367	2.28
287	3	0.01	587	0.98	336	4	0.01	812	1.36	385	16	0.03	1383	2.31
288	3	0.01	590	0.99	337	5	0.01	817	1.37	386	25	0.04	1408	2.35
289	3	0.01	593	0.99	338	8	0.01	825	1.38	387	23	0.04	1431	2.39
290	5	0.01	598	1.00	339	2	0.00	827	1.38	388	31	0.05	1462	2.44
291	1	0.00	599	1.00	340	9	0.02	836	1.40	389	23	0.04	1485	2.48

**Table 159. Reading Grade 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. %
390	31	0.05	1516	2.53	439	54	0.09	3371	5.63	488	146	0.24	8119	13.57
391	23	0.04	1539	2.57	440	55	0.09	3426	5.73	489	149	0.25	8268	13.82
392	19	0.03	1558	2.60	441	58	0.10	3484	5.82	490	154	0.26	8422	14.07
393	29	0.05	1587	2.65	442	69	0.12	3553	5.94	491	164	0.27	8586	14.35
394	25	0.04	1612	2.69	443	60	0.10	3613	6.04	492	156	0.26	8742	14.61
395	12	0.02	1624	2.71	444	59	0.10	3672	6.14	493	172	0.29	8914	14.90
396	19	0.03	1643	2.75	445	52	0.09	3724	6.22	494	189	0.32	9103	15.21
397	22	0.04	1665	2.78	446	71	0.12	3795	6.34	495	188	0.31	9291	15.53
398	24	0.04	1689	2.82	447	80	0.13	3875	6.48	496	186	0.31	9477	15.84
399	31	0.05	1720	2.87	448	56	0.09	3931	6.57	497	196	0.33	9673	16.16
400	33	0.06	1753	2.93	449	60	0.10	3991	6.67	498	180	0.30	9853	16.47
401	26	0.04	1779	2.97	450	72	0.12	4063	6.79	499	199	0.33	10052	16.80
402	24	0.04	1803	3.01	451	61	0.10	4124	6.89	500	194	0.32	10246	17.12
403	37	0.06	1840	3.07	452	72	0.12	4196	7.01	501	185	0.31	10431	17.43
404	28	0.05	1868	3.12	453	69	0.12	4265	7.13	502	203	0.34	10634	17.77
405	33	0.06	1901	3.18	454	70	0.12	4335	7.24	503	202	0.34	10836	18.11
406	27	0.05	1928	3.22	455	58	0.10	4393	7.34	504	203	0.34	11039	18.45
407	41	0.07	1969	3.29	456	94	0.16	4487	7.50	505	183	0.31	11222	18.75
408	24	0.04	1993	3.33	457	78	0.13	4565	7.63	506	237	0.40	11459	19.15
409	29	0.05	2022	3.38	458	73	0.12	4638	7.75	507	222	0.37	11681	19.52
410	38	0.06	2060	3.44	459	77	0.13	4715	7.88	508	206	0.34	11887	19.86
411	37	0.06	2097	3.50	460	83	0.14	4798	8.02	509	225	0.38	12112	20.24
412	32	0.05	2129	3.56	461	88	0.15	4886	8.17	510	258	0.43	12370	20.67
413	29	0.05	2158	3.61	462	80	0.13	4966	8.30	511	231	0.39	12601	21.06
414	30	0.05	2188	3.66	463	85	0.14	5051	8.44	512	223	0.37	12824	21.43
415	43	0.07	2231	3.73	464	94	0.16	5145	8.60	513	203	0.34	13027	21.77
416	36	0.06	2267	3.79	465	100	0.17	5245	8.77	514	255	0.43	13282	22.20
417	43	0.07	2310	3.86	466	104	0.17	5349	8.94	515	258	0.43	13540	22.63
418	34	0.06	2344	3.92	467	94	0.16	5443	9.10	516	249	0.42	13789	23.04
419	42	0.07	2386	3.99	468	100	0.17	5543	9.26	517	260	0.43	14049	23.48
420	24	0.04	2410	4.03	469	103	0.17	5646	9.44	518	259	0.43	14308	23.91
421	40	0.07	2450	4.09	470	97	0.16	5743	9.60	519	249	0.42	14557	24.33
422	40	0.07	2490	4.16	471	99	0.17	5842	9.76	520	268	0.45	14825	24.77
423	46	0.08	2536	4.24	472	116	0.19	5958	9.96	521	283	0.47	15108	25.25
424	47	0.08	2583	4.32	473	107	0.18	6065	10.14	522	289	0.48	15397	25.73
425	54	0.09	2637	4.41	474	111	0.19	6176	10.32	523	273	0.46	15670	26.19
426	43	0.07	2680	4.48	475	121	0.20	6297	10.52	524	279	0.47	15949	26.65
427	45	0.08	2725	4.55	476	122	0.20	6419	10.73	525	290	0.48	16239	27.14
428	47	0.08	2772	4.63	477	109	0.18	6528	10.91	526	305	0.51	16544	27.65
429	50	0.08	2822	4.72	478	122	0.20	6650	11.11	527	323	0.54	16867	28.19
430	46	0.08	2868	4.79	479	126	0.21	6776	11.32	528	290	0.48	17157	28.67
431	49	0.08	2917	4.87	480	120	0.20	6896	11.52	529	308	0.51	17465	29.19
432	46	0.08	2963	4.95	481	162	0.27	7058	11.79	530	326	0.54	17791	29.73
433	57	0.10	3020	5.05	482	152	0.25	7210	12.05	531	282	0.47	18073	30.20
434	43	0.07	3063	5.12	483	140	0.23	7350	12.28	532	307	0.51	18380	30.72
435	50	0.08	3113	5.20	484	143	0.24	7493	12.52	533	327	0.55	18707	31.26
436	58	0.10	3171	5.30	485	147	0.25	7640	12.77	534	350	0.58	19057	31.85
437	77	0.13	3248	5.43	486	156	0.26	7796	13.03	535	327	0.55	19384	32.39
438	69	0.12	3317	5.54	487	177	0.30	7973	13.32	536	323	0.54	19707	32.93

**Table 159. Reading Grade 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. %
537	307	0.51	20014	33.45	586	343	0.57	38052	63.59	635	210	0.35	52289	87.38
538	322	0.54	20336	33.98	587	373	0.62	38425	64.21	636	229	0.38	52518	87.76
539	353	0.59	20689	34.57	588	350	0.58	38775	64.80	637	201	0.34	52719	88.10
540	332	0.55	21021	35.13	589	330	0.55	39105	65.35	638	201	0.34	52920	88.44
541	326	0.54	21347	35.67	590	346	0.58	39451	65.93	639	188	0.31	53108	88.75
542	356	0.59	21703	36.27	591	370	0.62	39821	66.55	640	205	0.34	53313	89.09
543	362	0.60	22065	36.87	592	333	0.56	40154	67.10	641	169	0.28	53482	89.37
544	365	0.61	22430	37.48	593	340	0.57	40494	67.67	642	216	0.36	53698	89.74
545	330	0.55	22760	38.03	594	363	0.61	40857	68.28	643	196	0.33	53894	90.06
546	341	0.57	23101	38.60	595	319	0.53	41176	68.81	644	175	0.29	54069	90.36
547	335	0.56	23436	39.16	596	329	0.55	41505	69.36	645	171	0.29	54240	90.64
548	318	0.53	23754	39.70	597	317	0.53	41822	69.89	646	173	0.29	54413	90.93
549	357	0.60	24111	40.29	598	339	0.57	42161	70.46	647	150	0.25	54563	91.18
550	383	0.64	24494	40.93	599	347	0.58	42508	71.04	648	142	0.24	54705	91.42
551	364	0.61	24858	41.54	600	374	0.63	42882	71.66	649	166	0.28	54871	91.70
552	382	0.64	25240	42.18	601	341	0.57	43223	72.23	650	146	0.24	55017	91.94
553	376	0.63	25616	42.81	602	334	0.56	43557	72.79	651	122	0.20	55139	92.14
554	369	0.62	25985	43.42	603	300	0.50	43857	73.29	652	137	0.23	55276	92.37
555	370	0.62	26355	44.04	604	324	0.54	44181	73.83	653	148	0.25	55424	92.62
556	389	0.65	26744	44.69	605	279	0.47	44460	74.30	654	142	0.24	55566	92.86
557	377	0.63	27121	45.32	606	341	0.57	44801	74.87	655	106	0.18	55672	93.03
558	365	0.61	27486	45.93	607	283	0.47	45084	75.34	656	133	0.22	55805	93.26
559	391	0.65	27877	46.59	608	262	0.44	45346	75.78	657	123	0.21	55928	93.46
560	387	0.65	28264	47.23	609	313	0.52	45659	76.30	658	125	0.21	56053	93.67
561	365	0.61	28629	47.84	610	309	0.52	45968	76.82	659	130	0.22	56183	93.89
562	382	0.64	29011	48.48	611	281	0.47	46249	77.29	660	123	0.21	56306	94.09
563	345	0.58	29356	49.06	612	301	0.50	46550	77.79	661	103	0.17	56409	94.27
564	387	0.65	29743	49.70	613	289	0.48	46839	78.27	662	93	0.16	56502	94.42
565	405	0.68	30148	50.38	614	305	0.51	47144	78.78	663	104	0.17	56606	94.60
566	370	0.62	30518	51.00	615	277	0.46	47421	79.25	664	106	0.18	56712	94.77
567	385	0.64	30903	51.64	616	260	0.43	47681	79.68	665	97	0.16	56809	94.93
568	364	0.61	31267	52.25	617	260	0.43	47941	80.12	666	100	0.17	56909	95.10
569	375	0.63	31642	52.88	618	292	0.49	48233	80.60	667	79	0.13	56988	95.23
570	417	0.70	32059	53.57	619	272	0.45	48505	81.06	668	87	0.15	57075	95.38
571	405	0.68	32464	54.25	620	259	0.43	48764	81.49	669	86	0.14	57161	95.52
572	399	0.67	32863	54.92	621	274	0.46	49038	81.95	670	82	0.14	57243	95.66
573	424	0.71	33287	55.63	622	230	0.38	49268	82.33	671	95	0.16	57338	95.82
574	416	0.70	33703	56.32	623	268	0.45	49536	82.78	672	75	0.13	57413	95.94
575	393	0.66	34096	56.98	624	265	0.44	49801	83.22	673	99	0.17	57512	96.11
576	382	0.64	34478	57.62	625	276	0.46	50077	83.68	674	81	0.14	57593	96.24
577	372	0.62	34850	58.24	626	228	0.38	50305	84.07	675	67	0.11	57660	96.36
578	368	0.61	35218	58.85	627	231	0.39	50536	84.45	676	69	0.12	57729	96.47
579	357	0.60	35575	59.45	628	223	0.37	50759	84.82	677	68	0.11	57797	96.59
580	366	0.61	35941	60.06	629	247	0.41	51006	85.24	678	87	0.15	57884	96.73
581	368	0.61	36309	60.68	630	227	0.38	51233	85.62	679	70	0.12	57954	96.85
582	368	0.61	36677	61.29	631	228	0.38	51461	86.00	680	54	0.09	58008	96.94
583	323	0.54	37000	61.83	632	208	0.35	51669	86.35	681	51	0.09	58059	97.02
584	380	0.64	37380	62.47	633	204	0.34	51873	86.69	682	67	0.11	58126	97.14
585	329	0.55	37709	63.02	634	206	0.34	52079	87.03	683	51	0.09	58177	97.22

**Table 159. Reading Grade 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. %
684	48	0.08	58225	97.30	733	17	0.03	59541	99.50	789	3	0.01	59798	99.93
685	50	0.08	58275	97.38	734	6	0.01	59547	99.51	791	3	0.01	59801	99.93
686	63	0.11	58338	97.49	735	12	0.02	59559	99.53	792	2	0.00	59803	99.94
687	51	0.09	58389	97.58	736	10	0.02	59569	99.55	794	1	0.00	59804	99.94
688	36	0.06	58425	97.64	737	6	0.01	59575	99.56	795	36	0.06	59840	100.00
689	53	0.09	58478	97.72	738	8	0.01	59583	99.57					
690	41	0.07	58519	97.79	739	10	0.02	59593	99.59					
691	50	0.08	58569	97.88	740	15	0.03	59608	99.61					
692	42	0.07	58611	97.95	741	4	0.01	59612	99.62					
693	51	0.09	58662	98.03	742	4	0.01	59616	99.63					
694	41	0.07	58703	98.10	743	9	0.02	59625	99.64					
695	56	0.09	58759	98.19	744	8	0.01	59633	99.65					
696	31	0.05	58790	98.25	745	2	0.00	59635	99.66					
697	34	0.06	58824	98.30	746	7	0.01	59642	99.67					
698	25	0.04	58849	98.34	747	9	0.02	59651	99.68					
699	29	0.05	58878	98.39	748	5	0.01	59656	99.69					
700	26	0.04	58904	98.44	749	2	0.00	59658	99.70					
701	39	0.07	58943	98.50	750	6	0.01	59664	99.71					
702	27	0.05	58970	98.55	751	11	0.02	59675	99.72					
703	37	0.06	59007	98.61	752	6	0.01	59681	99.73					
704	30	0.05	59037	98.66	753	1	0.00	59682	99.74					
705	30	0.05	59067	98.71	754	4	0.01	59686	99.74					
706	23	0.04	59090	98.75	755	4	0.01	59690	99.75					
707	32	0.05	59122	98.80	756	3	0.01	59693	99.75					
708	24	0.04	59146	98.84	757	3	0.01	59696	99.76					
709	21	0.04	59167	98.88	758	6	0.01	59702	99.77					
710	28	0.05	59195	98.92	759	10	0.02	59712	99.79					
711	19	0.03	59214	98.95	760	4	0.01	59716	99.79					
712	20	0.03	59234	98.99	761	5	0.01	59721	99.80					
713	17	0.03	59251	99.02	763	4	0.01	59725	99.81					
714	21	0.04	59272	99.05	764	13	0.02	59738	99.83					
715	18	0.03	59290	99.08	765	5	0.01	59743	99.84					
716	17	0.03	59307	99.11	766	1	0.00	59744	99.84					
717	25	0.04	59332	99.15	767	3	0.01	59747	99.84					
718	16	0.03	59348	99.18	768	2	0.00	59749	99.85					
719	13	0.02	59361	99.20	769	6	0.01	59755	99.86					
720	18	0.03	59379	99.23	770	1	0.00	59756	99.86					
721	21	0.04	59400	99.26	772	2	0.00	59758	99.86					
722	11	0.02	59411	99.28	773	7	0.01	59765	99.87					
723	13	0.02	59424	99.30	774	2	0.00	59767	99.88					
724	10	0.02	59434	99.32	775	2	0.00	59769	99.88					
725	11	0.02	59445	99.34	777	6	0.01	59775	99.89					
726	27	0.05	59472	99.39	778	2	0.00	59777	99.89					
727	6	0.01	59478	99.40	780	2	0.00	59779	99.90					
728	11	0.02	59489	99.41	783	1	0.00	59780	99.90					
729	15	0.03	59504	99.44	784	1	0.00	59781	99.90					
730	13	0.02	59517	99.46	785	10	0.02	59791	99.92					
731	4	0.01	59521	99.47	786	3	0.01	59794	99.92					
732	3	0.01	59524	99.47	787	1	0.00	59795	99.92					

**Table 160. Spanish Reading Grade 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	8	0.59	8	0.59	453	4	0.29	99	7.27	503	10	0.73	404	29.66
316	1	0.07	9	0.66	454	3	0.22	102	7.49	504	15	1.10	419	30.76
364	1	0.07	10	0.73	455	6	0.44	108	7.93	505	8	0.59	427	31.35
369	1	0.07	11	0.81	456	2	0.15	110	8.08	506	13	0.95	440	32.31
371	1	0.07	12	0.88	457	6	0.44	116	8.52	507	11	0.81	451	33.11
380	1	0.07	13	0.95	458	6	0.44	122	8.96	508	8	0.59	459	33.70
382	1	0.07	14	1.03	459	2	0.15	124	9.10	509	10	0.73	469	34.43
383	1	0.07	15	1.10	460	2	0.15	126	9.25	510	12	0.88	481	35.32
392	1	0.07	16	1.17	461	5	0.37	131	9.62	511	8	0.59	489	35.90
394	1	0.07	17	1.25	462	3	0.22	134	9.84	512	14	1.03	503	36.93
396	1	0.07	18	1.32	463	7	0.51	141	10.35	513	24	1.76	527	38.69
402	2	0.15	20	1.47	465	2	0.15	143	10.50	514	7	0.51	534	39.21
403	1	0.07	21	1.54	466	3	0.22	146	10.72	515	15	1.10	549	40.31
407	2	0.15	23	1.69	467	3	0.22	149	10.94	516	9	0.66	558	40.97
408	2	0.15	25	1.84	468	4	0.29	153	11.23	517	9	0.66	567	41.63
409	1	0.07	26	1.91	469	2	0.15	155	11.38	518	15	1.10	582	42.73
410	1	0.07	27	1.98	470	3	0.22	158	11.60	519	11	0.81	593	43.54
411	2	0.15	29	2.13	471	6	0.44	164	12.04	520	16	1.17	609	44.71
413	2	0.15	31	2.28	472	3	0.22	167	12.26	521	7	0.51	616	45.23
415	2	0.15	33	2.42	473	7	0.51	174	12.78	522	18	1.32	634	46.55
416	1	0.07	34	2.50	474	6	0.44	180	13.22	523	14	1.03	648	47.58
419	1	0.07	35	2.57	475	6	0.44	186	13.66	524	9	0.66	657	48.24
423	1	0.07	36	2.64	476	7	0.51	193	14.17	525	20	1.47	677	49.71
424	1	0.07	37	2.72	477	8	0.59	201	14.76	526	19	1.40	696	51.10
425	2	0.15	39	2.86	478	4	0.29	205	15.05	527	11	0.81	707	51.91
427	2	0.15	41	3.01	479	10	0.73	215	15.79	528	12	0.88	719	52.79
428	2	0.15	43	3.16	480	3	0.22	218	16.01	529	17	1.25	736	54.04
430	1	0.07	44	3.23	481	12	0.88	230	16.89	530	12	0.88	748	54.92
431	1	0.07	45	3.30	482	7	0.51	237	17.40	531	13	0.95	761	55.87
432	2	0.15	47	3.45	483	3	0.22	240	17.62	532	8	0.59	769	56.46
434	3	0.22	50	3.67	484	13	0.95	253	18.58	533	15	1.10	784	57.56
435	3	0.22	53	3.89	485	5	0.37	258	18.94	534	13	0.95	797	58.52
436	1	0.07	54	3.96	486	6	0.44	264	19.38	535	10	0.73	807	59.25
437	2	0.15	56	4.11	487	4	0.29	268	19.68	536	9	0.66	816	59.91
438	1	0.07	57	4.19	488	11	0.81	279	20.48	537	10	0.73	826	60.65
439	3	0.22	60	4.41	489	9	0.66	288	21.15	538	16	1.17	842	61.82
440	4	0.29	64	4.70	490	8	0.59	296	21.73	539	15	1.10	857	62.92
441	1	0.07	65	4.77	491	8	0.59	304	22.32	540	20	1.47	877	64.39
442	2	0.15	67	4.92	492	9	0.66	313	22.98	541	11	0.81	888	65.20
443	3	0.22	70	5.14	493	3	0.22	316	23.20	542	7	0.51	895	65.71
444	2	0.15	72	5.29	494	6	0.44	322	23.64	543	14	1.03	909	66.74
445	6	0.44	78	5.73	495	12	0.88	334	24.52	544	12	0.88	921	67.62
446	3	0.22	81	5.95	496	5	0.37	339	24.89	545	10	0.73	931	68.36
447	1	0.07	82	6.02	497	7	0.51	346	25.40	546	11	0.81	942	69.16
448	2	0.15	84	6.17	498	10	0.73	356	26.14	547	11	0.81	953	69.97
449	4	0.29	88	6.46	499	9	0.66	365	26.80	548	12	0.88	965	70.85
450	1	0.07	89	6.53	500	7	0.51	372	27.31	549	7	0.51	972	71.37
451	5	0.37	94	6.90	501	14	1.03	386	28.34	550	6	0.44	978	71.81
452	1	0.07	95	6.98	502	8	0.59	394	28.93	551	12	0.88	990	72.69

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

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
552	12	0.88	1002	73.57	603	2	0.15	1321	96.99
553	8	0.59	1010	74.16	604	2	0.15	1323	97.14
554	6	0.44	1016	74.60	605	2	0.15	1325	97.28
555	11	0.81	1027	75.40	606	2	0.15	1327	97.43
556	6	0.44	1033	75.84	607	1	0.07	1328	97.50
557	9	0.66	1042	76.51	608	1	0.07	1329	97.58
558	6	0.44	1048	76.95	609	2	0.15	1331	97.72
559	13	0.95	1061	77.90	610	2	0.15	1333	97.87
560	10	0.73	1071	78.63	611	2	0.15	1335	98.02
561	10	0.73	1081	79.37	612	1	0.07	1336	98.09
562	8	0.59	1089	79.96	613	3	0.22	1339	98.31
563	8	0.59	1097	80.54	614	1	0.07	1340	98.38
564	12	0.88	1109	81.42	615	1	0.07	1341	98.46
565	12	0.88	1121	82.31	616	1	0.07	1342	98.53
566	8	0.59	1129	82.89	618	3	0.22	1345	98.75
567	5	0.37	1134	83.26	619	1	0.07	1346	98.83
568	8	0.59	1142	83.85	622	1	0.07	1347	98.90
569	13	0.95	1155	84.80	623	1	0.07	1348	98.97
570	16	1.17	1171	85.98	629	1	0.07	1349	99.05
571	10	0.73	1181	86.71	630	1	0.07	1350	99.12
572	7	0.51	1188	87.22	632	1	0.07	1351	99.19
573	5	0.37	1193	87.59	633	1	0.07	1352	99.27
574	5	0.37	1198	87.96	634	1	0.07	1353	99.34
575	8	0.59	1206	88.55	641	1	0.07	1354	99.41
576	11	0.81	1217	89.35	643	1	0.07	1355	99.49
577	7	0.51	1224	89.87	647	1	0.07	1356	99.56
578	3	0.22	1227	90.09	648	1	0.07	1357	99.63
579	7	0.51	1234	90.60	650	1	0.07	1358	99.71
581	10	0.73	1244	91.34	651	1	0.07	1359	99.78
582	6	0.44	1250	91.78	654	1	0.07	1360	99.85
583	3	0.22	1253	92.00	659	1	0.07	1361	99.93
584	8	0.59	1261	92.58	669	1	0.07	1362	100.00
585	4	0.29	1265	92.88					
586	3	0.22	1268	93.10					
587	6	0.44	1274	93.54					
588	4	0.29	1278	93.83					
589	3	0.22	1281	94.05					
590	4	0.29	1285	94.35					
591	5	0.37	1290	94.71					
592	6	0.44	1296	95.15					
593	3	0.22	1299	95.37					
594	6	0.44	1305	95.81					
595	1	0.07	1306	95.89					
596	3	0.22	1309	96.11					
597	3	0.22	1312	96.33					
598	2	0.15	1314	96.48					
600	2	0.15	1316	96.62					
601	2	0.15	1318	96.77					
602	1	0.07	1319	96.84					



**Table 161. Writing Grade 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	150	0.25	150	0.25	314	7	0.01	322	0.54	363	31	0.05	1176	1.96
156	1	0.00	151	0.25	315	6	0.01	328	0.55	364	43	0.07	1219	2.03
174	1	0.00	152	0.25	316	10	0.02	338	0.56	365	38	0.06	1257	2.10
211	1	0.00	153	0.26	317	8	0.01	346	0.58	366	38	0.06	1295	2.16
260	1	0.00	154	0.26	318	5	0.01	351	0.59	367	50	0.08	1345	2.24
266	1	0.00	155	0.26	319	9	0.02	360	0.60	368	52	0.09	1397	2.33
267	1	0.00	156	0.26	320	7	0.01	367	0.61	369	55	0.09	1452	2.42
268	1	0.00	157	0.26	321	8	0.01	375	0.63	370	59	0.10	1511	2.52
270	2	0.00	159	0.27	322	9	0.02	384	0.64	371	56	0.09	1567	2.61
271	1	0.00	160	0.27	323	7	0.01	391	0.65	372	62	0.10	1629	2.72
272	1	0.00	161	0.27	324	8	0.01	399	0.67	373	80	0.13	1709	2.85
273	2	0.00	163	0.27	325	10	0.02	409	0.68	374	66	0.11	1775	2.96
275	3	0.01	166	0.28	326	8	0.01	417	0.70	375	74	0.12	1849	3.09
276	5	0.01	171	0.29	327	12	0.02	429	0.72	376	60	0.10	1909	3.19
277	1	0.00	172	0.29	328	11	0.02	440	0.73	377	71	0.12	1980	3.30
278	5	0.01	177	0.30	329	12	0.02	452	0.75	378	86	0.14	2066	3.45
279	2	0.00	179	0.30	330	13	0.02	465	0.78	379	90	0.15	2156	3.60
280	2	0.00	181	0.30	331	13	0.02	478	0.80	380	82	0.14	2238	3.73
281	6	0.01	187	0.31	332	16	0.03	494	0.82	381	75	0.13	2313	3.86
282	2	0.00	189	0.32	333	7	0.01	501	0.84	382	98	0.16	2411	4.02
283	9	0.02	198	0.33	334	14	0.02	515	0.86	383	68	0.11	2479	4.14
284	2	0.00	200	0.33	335	15	0.03	530	0.88	384	110	0.18	2589	4.32
285	1	0.00	201	0.34	336	13	0.02	543	0.91	385	96	0.16	2685	4.48
286	6	0.01	207	0.35	337	10	0.02	553	0.92	386	88	0.15	2773	4.63
287	1	0.00	208	0.35	338	12	0.02	565	0.94	387	107	0.18	2880	4.81
289	4	0.01	212	0.35	339	23	0.04	588	0.98	388	109	0.18	2989	4.99
290	4	0.01	216	0.36	340	13	0.02	601	1.00	389	103	0.17	3092	5.16
291	2	0.00	218	0.36	341	18	0.03	619	1.03	390	107	0.18	3199	5.34
292	3	0.01	221	0.37	342	9	0.02	628	1.05	391	129	0.22	3328	5.55
293	7	0.01	228	0.38	343	28	0.05	656	1.09	392	132	0.22	3460	5.77
294	1	0.00	229	0.38	344	17	0.03	673	1.12	393	129	0.22	3589	5.99
295	2	0.00	231	0.39	345	18	0.03	691	1.15	394	136	0.23	3725	6.22
296	3	0.01	234	0.39	346	13	0.02	704	1.17	395	129	0.22	3854	6.43
297	4	0.01	238	0.40	347	22	0.04	726	1.21	396	157	0.26	4011	6.69
298	2	0.00	240	0.40	348	21	0.04	747	1.25	397	149	0.25	4160	6.94
299	5	0.01	245	0.41	349	19	0.03	766	1.28	398	173	0.29	4333	7.23
300	2	0.00	247	0.41	350	28	0.05	794	1.32	399	164	0.27	4497	7.50
301	2	0.00	249	0.42	351	22	0.04	816	1.36	400	179	0.30	4676	7.80
302	9	0.02	258	0.43	352	24	0.04	840	1.40	401	153	0.26	4829	8.06
303	3	0.01	261	0.44	353	33	0.06	873	1.46	402	197	0.33	5026	8.39
304	2	0.00	263	0.44	354	26	0.04	899	1.50	403	154	0.26	5180	8.64
305	6	0.01	269	0.45	355	25	0.04	924	1.54	404	166	0.28	5346	8.92
306	6	0.01	275	0.46	356	29	0.05	953	1.59	405	159	0.27	5505	9.19
307	3	0.01	278	0.46	357	22	0.04	975	1.63	406	187	0.31	5692	9.50
309	6	0.01	284	0.47	358	33	0.06	1008	1.68	407	194	0.32	5886	9.82
310	7	0.01	291	0.49	359	35	0.06	1043	1.74	408	227	0.38	6113	10.20
311	10	0.02	301	0.50	360	33	0.06	1076	1.80	409	223	0.37	6336	10.57
312	5	0.01	306	0.51	361	36	0.06	1112	1.86	410	235	0.39	6571	10.96
313	9	0.02	315	0.53	362	33	0.06	1145	1.91	411	222	0.37	6793	11.33

**Table 161. Writing Grade 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. %
412	224	0.37	7017	11.71	461	475	0.79	26143	43.62	510	491	0.82	48772	81.38
413	251	0.42	7268	12.13	462	545	0.91	26688	44.53	511	420	0.70	49192	82.08
414	249	0.42	7517	12.54	463	502	0.84	27190	45.37	512	287	0.48	49479	82.56
415	257	0.43	7774	12.97	464	523	0.87	27713	46.24	513	243	0.41	49722	82.96
416	293	0.49	8067	13.46	465	525	0.88	28238	47.12	514	344	0.57	50066	83.54
417	265	0.44	8332	13.90	466	490	0.82	28728	47.93	515	199	0.33	50265	83.87
418	245	0.41	8577	14.31	467	482	0.80	29210	48.74	516	169	0.28	50434	84.15
419	308	0.51	8885	14.82	468	523	0.87	29733	49.61	517	166	0.28	50600	84.43
420	297	0.50	9182	15.32	469	487	0.81	30220	50.42	518	141	0.24	50741	84.66
421	287	0.48	9469	15.80	470	499	0.83	30719	51.26	519	265	0.44	51006	85.11
422	305	0.51	9774	16.31	471	528	0.88	31247	52.14	520	439	0.73	51445	85.84
423	317	0.53	10091	16.84	472	498	0.83	31745	52.97	521	323	0.54	51768	86.38
424	320	0.53	10411	17.37	473	532	0.89	32277	53.86	522	398	0.66	52166	87.04
425	281	0.47	10692	17.84	474	505	0.84	32782	54.70	523	680	1.13	52846	88.18
426	293	0.49	10985	18.33	475	497	0.83	33279	55.53	524	208	0.35	53054	88.52
427	310	0.52	11295	18.85	476	499	0.83	33778	56.36	525	152	0.25	53206	88.78
428	342	0.57	11637	19.42	477	450	0.75	34228	57.11	526	247	0.41	53453	89.19
429	336	0.56	11973	19.98	478	533	0.89	34761	58.00	527	576	0.96	54029	90.15
430	348	0.58	12321	20.56	479	499	0.83	35260	58.83	528	141	0.24	54170	90.38
431	334	0.56	12655	21.12	480	523	0.87	35783	59.71	529	59	0.10	54229	90.48
432	350	0.58	13005	21.70	481	499	0.83	36282	60.54	530	78	0.13	54307	90.61
433	371	0.62	13376	22.32	482	489	0.82	36771	61.35	531	57	0.10	54364	90.71
434	375	0.63	13751	22.94	483	514	0.86	37285	62.21	532	65	0.11	54429	90.82
435	417	0.70	14168	23.64	484	455	0.76	37740	62.97	533	93	0.16	54522	90.97
436	399	0.67	14567	24.31	485	417	0.70	38157	63.67	534	156	0.26	54678	91.23
437	410	0.68	14977	24.99	486	490	0.82	38647	64.48	535	123	0.21	54801	91.44
438	409	0.68	15386	25.67	487	467	0.78	39114	65.26	536	74	0.12	54875	91.56
439	439	0.73	15825	26.40	488	453	0.76	39567	66.02	537	114	0.19	54989	91.75
440	409	0.68	16234	27.09	489	513	0.86	40080	66.87	538	94	0.16	55083	91.91
441	417	0.70	16651	27.78	490	479	0.80	40559	67.67	539	312	0.52	55395	92.43
442	395	0.66	17046	28.44	491	475	0.79	41034	68.47	540	1167	1.95	56562	94.38
443	419	0.70	17465	29.14	492	489	0.82	41523	69.28	541	47	0.08	56609	94.45
444	468	0.78	17933	29.92	493	428	0.71	41951	70.00	542	95	0.16	56704	94.61
445	440	0.73	18373	30.66	494	385	0.64	42336	70.64	543	332	0.55	57036	95.17
446	455	0.76	18828	31.42	495	422	0.70	42758	71.34	544	42	0.07	57078	95.24
447	494	0.82	19322	32.24	496	479	0.80	43237	72.14	545	83	0.14	57161	95.37
448	457	0.76	19779	33.00	497	428	0.71	43665	72.86	546	46	0.08	57207	95.45
449	482	0.80	20261	33.81	498	440	0.73	44105	73.59	547	47	0.08	57254	95.53
450	503	0.84	20764	34.65	499	440	0.73	44545	74.32	548	48	0.08	57302	95.61
451	464	0.77	21228	35.42	500	464	0.77	45009	75.10	549	19	0.03	57321	95.64
452	466	0.78	21694	36.20	501	400	0.67	45409	75.77	550	21	0.04	57342	95.68
453	476	0.79	22170	36.99	502	380	0.63	45789	76.40	551	58	0.10	57400	95.77
454	493	0.82	22663	37.81	503	333	0.56	46122	76.96	552	18	0.03	57418	95.80
455	500	0.83	23163	38.65	504	281	0.47	46403	77.42	553	15	0.03	57433	95.83
456	509	0.85	23672	39.50	505	339	0.57	46742	77.99	554	53	0.09	57486	95.92
457	484	0.81	24156	40.31	506	300	0.50	47042	78.49	555	19	0.03	57505	95.95
458	519	0.87	24675	41.17	507	378	0.63	47420	79.12	556	86	0.14	57591	96.09
459	505	0.84	25180	42.01	508	455	0.76	47875	79.88	557	36	0.06	57627	96.15
460	488	0.81	25668	42.83	509	406	0.68	48281	80.56	558	87	0.15	57714	96.30

**Table 161. Writing Grade 3 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>
559	54	0.09	57768	96.39
560	698	1.16	58466	97.55
561	13	0.02	58479	97.57
562	51	0.09	58530	97.66
563	114	0.19	58644	97.85
564	49	0.08	58693	97.93
565	160	0.27	58853	98.20
566	23	0.04	58876	98.24
567	3	0.01	58879	98.24
568	12	0.02	58891	98.26
569	49	0.08	58940	98.34
570	39	0.07	58979	98.41
572	2	0.00	58981	98.41
573	21	0.04	59002	98.45
574	3	0.01	59005	98.45
575	2	0.00	59007	98.45
576	1	0.00	59008	98.46
578	4	0.01	59012	98.46
579	2	0.00	59014	98.47
580	16	0.03	59030	98.49
582	11	0.02	59041	98.51
583	4	0.01	59045	98.52
584	3	0.01	59048	98.52
585	2	0.00	59050	98.53
586	13	0.02	59063	98.55
587	248	0.41	59311	98.96
588	2	0.00	59313	98.97
589	10	0.02	59323	98.98
590	17	0.03	59340	99.01
591	8	0.01	59348	99.02
592	49	0.08	59397	99.11
593	1	0.00	59398	99.11
595	21	0.04	59419	99.14
596	213	0.36	59632	99.50
600	6	0.01	59638	99.51
601	35	0.06	59673	99.57
605	34	0.06	59707	99.62
609	16	0.03	59723	99.65
680	210	0.35	59933	100.00

**Table 162. Spanish Writing Grade 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	2	0.15	2	0.15	405	1	0.07	62	4.59	458	4	0.30	232	17.17
264	1	0.07	3	0.22	407	5	0.37	67	4.96	459	6	0.44	238	17.62
269	1	0.07	4	0.30	408	1	0.07	68	5.03	460	5	0.37	243	17.99
285	1	0.07	5	0.37	409	3	0.22	71	5.26	461	6	0.44	249	18.43
297	1	0.07	6	0.44	410	1	0.07	72	5.33	462	6	0.44	255	18.87
302	1	0.07	7	0.52	411	3	0.22	75	5.55	463	3	0.22	258	19.10
305	1	0.07	8	0.59	412	2	0.15	77	5.70	464	7	0.52	265	19.62
307	1	0.07	9	0.67	414	4	0.30	81	6.00	465	4	0.30	269	19.91
335	1	0.07	10	0.74	415	2	0.15	83	6.14	466	7	0.52	276	20.43
336	1	0.07	11	0.81	417	2	0.15	85	6.29	467	8	0.59	284	21.02
337	1	0.07	12	0.89	418	2	0.15	87	6.44	468	5	0.37	289	21.39
341	1	0.07	13	0.96	420	1	0.07	88	6.51	469	4	0.30	293	21.69
345	1	0.07	14	1.04	421	2	0.15	90	6.66	470	7	0.52	300	22.21
348	1	0.07	15	1.11	422	5	0.37	95	7.03	471	6	0.44	306	22.65
349	2	0.15	17	1.26	423	1	0.07	96	7.11	472	7	0.52	313	23.17
353	2	0.15	19	1.41	424	2	0.15	98	7.25	473	5	0.37	318	23.54
354	1	0.07	20	1.48	425	5	0.37	103	7.62	474	7	0.52	325	24.06
362	1	0.07	21	1.55	426	3	0.22	106	7.85	475	3	0.22	328	24.28
363	1	0.07	22	1.63	427	3	0.22	109	8.07	476	7	0.52	335	24.80
364	1	0.07	23	1.70	428	4	0.30	113	8.36	477	9	0.67	344	25.46
366	1	0.07	24	1.78	429	4	0.30	117	8.66	478	7	0.52	351	25.98
367	1	0.07	25	1.85	430	1	0.07	118	8.73	479	8	0.59	359	26.57
368	1	0.07	26	1.92	431	4	0.30	122	9.03	480	9	0.67	368	27.24
370	1	0.07	27	2.00	432	2	0.15	124	9.18	481	7	0.52	375	27.76
371	1	0.07	28	2.07	433	2	0.15	126	9.33	482	5	0.37	380	28.13
373	1	0.07	29	2.15	434	1	0.07	127	9.40	483	9	0.67	389	28.79
376	1	0.07	30	2.22	435	3	0.22	130	9.62	484	8	0.59	397	29.39
377	1	0.07	31	2.29	436	3	0.22	133	9.84	485	4	0.30	401	29.68
378	1	0.07	32	2.37	437	2	0.15	135	9.99	486	10	0.74	411	30.42
379	1	0.07	33	2.44	438	5	0.37	140	10.36	487	5	0.37	416	30.79
380	1	0.07	34	2.52	439	5	0.37	145	10.73	488	11	0.81	427	31.61
384	1	0.07	35	2.59	440	5	0.37	150	11.10	489	7	0.52	434	32.12
385	1	0.07	36	2.66	441	8	0.59	158	11.70	490	4	0.30	438	32.42
386	1	0.07	37	2.74	442	5	0.37	163	12.07	491	4	0.30	442	32.72
387	1	0.07	38	2.81	443	5	0.37	168	12.44	492	7	0.52	449	33.23
388	1	0.07	39	2.89	444	1	0.07	169	12.51	493	4	0.30	453	33.53
389	2	0.15	41	3.03	445	1	0.07	170	12.58	494	10	0.74	463	34.27
391	1	0.07	42	3.11	446	4	0.30	174	12.88	495	12	0.89	475	35.16
393	1	0.07	43	3.18	447	6	0.44	180	13.32	496	11	0.81	486	35.97
394	2	0.15	45	3.33	448	4	0.30	184	13.62	497	7	0.52	493	36.49
395	1	0.07	46	3.40	449	6	0.44	190	14.06	498	5	0.37	498	36.86
396	1	0.07	47	3.48	450	2	0.15	192	14.21	499	4	0.30	502	37.16
397	1	0.07	48	3.55	451	5	0.37	197	14.58	500	5	0.37	507	37.53
398	2	0.15	50	3.70	452	4	0.30	201	14.88	501	8	0.59	515	38.12
399	2	0.15	52	3.85	453	7	0.52	208	15.40	502	9	0.67	524	38.79
400	3	0.22	55	4.07	454	9	0.67	217	16.06	503	8	0.59	532	39.38
401	3	0.22	58	4.29	455	3	0.22	220	16.28	504	5	0.37	537	39.75
402	1	0.07	59	4.37	456	3	0.22	223	16.51	505	8	0.59	545	40.34
403	2	0.15	61	4.52	457	5	0.37	228	16.88	506	4	0.30	549	40.64

**Table 162. Spanish Writing Grade 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. %
507	7	0.52	556	41.15	556	12	0.89	913	67.58	605	5	0.37	1201	88.90
508	9	0.67	565	41.82	557	3	0.22	916	67.80	606	8	0.59	1209	89.49
509	5	0.37	570	42.19	558	7	0.52	923	68.32	607	6	0.44	1215	89.93
510	16	1.18	586	43.38	559	7	0.52	930	68.84	608	6	0.44	1221	90.38
511	9	0.67	595	44.04	560	11	0.81	941	69.65	609	3	0.22	1224	90.60
512	2	0.15	597	44.19	561	8	0.59	949	70.24	610	3	0.22	1227	90.82
513	8	0.59	605	44.78	562	8	0.59	957	70.84	611	4	0.30	1231	91.12
514	15	1.11	620	45.89	563	6	0.44	963	71.28	612	3	0.22	1234	91.34
515	5	0.37	625	46.26	564	8	0.59	971	71.87	615	3	0.22	1237	91.56
516	9	0.67	634	46.93	565	10	0.74	981	72.61	616	4	0.30	1241	91.86
517	11	0.81	645	47.74	566	6	0.44	987	73.06	618	6	0.44	1247	92.30
518	5	0.37	650	48.11	567	5	0.37	992	73.43	619	7	0.52	1254	92.82
519	17	1.26	667	49.37	568	6	0.44	998	73.87	620	4	0.30	1258	93.12
520	6	0.44	673	49.81	569	8	0.59	1006	74.46	621	2	0.15	1260	93.26
521	3	0.22	676	50.04	570	2	0.15	1008	74.61	623	4	0.30	1264	93.56
522	9	0.67	685	50.70	571	6	0.44	1014	75.06	624	5	0.37	1269	93.93
523	6	0.44	691	51.15	572	5	0.37	1019	75.43	625	3	0.22	1272	94.15
524	10	0.74	701	51.89	573	7	0.52	1026	75.94	626	5	0.37	1277	94.52
525	8	0.59	709	52.48	574	9	0.67	1035	76.61	627	1	0.07	1278	94.60
526	6	0.44	715	52.92	575	6	0.44	1041	77.05	629	4	0.30	1282	94.89
527	6	0.44	721	53.37	576	8	0.59	1049	77.65	630	4	0.30	1286	95.19
528	4	0.30	725	53.66	577	5	0.37	1054	78.02	631	7	0.52	1293	95.71
529	12	0.89	737	54.55	578	7	0.52	1061	78.53	632	2	0.15	1295	95.85
530	8	0.59	745	55.14	579	7	0.52	1068	79.05	633	3	0.22	1298	96.08
531	7	0.52	752	55.66	580	15	1.11	1083	80.16	635	1	0.07	1299	96.15
532	4	0.30	756	55.96	581	4	0.30	1087	80.46	636	3	0.22	1302	96.37
533	8	0.59	764	56.55	582	5	0.37	1092	80.83	637	3	0.22	1305	96.60
534	7	0.52	771	57.07	583	12	0.89	1104	81.72	638	1	0.07	1306	96.67
535	5	0.37	776	57.44	584	4	0.30	1108	82.01	640	1	0.07	1307	96.74
536	8	0.59	784	58.03	585	6	0.44	1114	82.46	643	2	0.15	1309	96.89
537	5	0.37	789	58.40	586	6	0.44	1120	82.90	645	1	0.07	1310	96.97
538	8	0.59	797	58.99	587	2	0.15	1122	83.05	646	2	0.15	1312	97.11
539	5	0.37	802	59.36	588	7	0.52	1129	83.57	647	2	0.15	1314	97.26
540	6	0.44	808	59.81	589	3	0.22	1132	83.79	648	2	0.15	1316	97.41
541	9	0.67	817	60.47	590	3	0.22	1135	84.01	649	2	0.15	1318	97.56
542	5	0.37	822	60.84	591	2	0.15	1137	84.16	652	1	0.07	1319	97.63
543	2	0.15	824	60.99	592	5	0.37	1142	84.53	654	1	0.07	1320	97.71
544	8	0.59	832	61.58	593	6	0.44	1148	84.97	655	1	0.07	1321	97.78
545	6	0.44	838	62.03	594	8	0.59	1156	85.57	656	1	0.07	1322	97.85
546	5	0.37	843	62.40	595	8	0.59	1164	86.16	658	1	0.07	1323	97.93
547	6	0.44	849	62.84	596	5	0.37	1169	86.53	659	1	0.07	1324	98.00
548	8	0.59	857	63.43	597	3	0.22	1172	86.75	660	1	0.07	1325	98.08
549	3	0.22	860	63.66	598	3	0.22	1175	86.97	662	1	0.07	1326	98.15
550	10	0.74	870	64.40	599	4	0.30	1179	87.27	663	1	0.07	1327	98.22
551	3	0.22	873	64.62	600	5	0.37	1184	87.64	664	1	0.07	1328	98.30
552	10	0.74	883	65.36	601	3	0.22	1187	87.86	667	1	0.07	1329	98.37
553	5	0.37	888	65.73	602	1	0.07	1188	87.93	670	1	0.07	1330	98.45
554	6	0.44	894	66.17	603	4	0.30	1192	88.23	672	2	0.15	1332	98.59
555	7	0.52	901	66.69	604	4	0.30	1196	88.53	673	5	0.37	1337	98.96

**Table 162. Spanish Writing Grade 3 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>
675	1	0.07	1338	99.04
677	5	0.37	1343	99.41
678	1	0.07	1344	99.48
697	3	0.22	1347	99.70
712	1	0.07	1348	99.78
715	1	0.07	1349	99.85
717	1	0.07	1350	99.93
750	1	0.07	1351	100.00

**Table 163. Mathematics Grade 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	204	2	0.00	238	0.39	253	19	0.03	728	1.19
151	1	0.00	79	0.13	205	4	0.01	242	0.39	254	13	0.02	741	1.21
154	2	0.00	81	0.13	206	9	0.01	251	0.41	255	15	0.02	756	1.23
155	1	0.00	82	0.13	207	1	0.00	252	0.41	256	15	0.02	771	1.26
156	4	0.01	86	0.14	208	6	0.01	258	0.42	257	27	0.04	798	1.30
157	1	0.00	87	0.14	209	7	0.01	265	0.43	258	19	0.03	817	1.33
158	5	0.01	92	0.15	210	4	0.01	269	0.44	259	23	0.04	840	1.37
160	5	0.01	97	0.16	211	5	0.01	274	0.45	260	18	0.03	858	1.40
161	2	0.00	99	0.16	212	5	0.01	279	0.46	261	18	0.03	876	1.43
162	1	0.00	100	0.16	213	9	0.01	288	0.47	262	19	0.03	895	1.46
164	3	0.00	103	0.17	214	7	0.01	295	0.48	263	25	0.04	920	1.50
165	4	0.01	107	0.17	215	6	0.01	301	0.49	264	23	0.04	943	1.54
166	1	0.00	108	0.18	216	4	0.01	305	0.50	265	29	0.05	972	1.59
167	3	0.00	111	0.18	217	9	0.01	314	0.51	266	22	0.04	994	1.62
168	4	0.01	115	0.19	218	7	0.01	321	0.52	267	26	0.04	1020	1.66
169	1	0.00	116	0.19	219	8	0.01	329	0.54	268	25	0.04	1045	1.70
170	1	0.00	117	0.19	220	9	0.01	338	0.55	269	28	0.05	1073	1.75
171	3	0.00	120	0.20	221	11	0.02	349	0.57	270	21	0.03	1094	1.78
172	1	0.00	121	0.20	222	9	0.01	358	0.58	271	30	0.05	1124	1.83
173	1	0.00	122	0.20	223	13	0.02	371	0.61	272	35	0.06	1159	1.89
174	4	0.01	126	0.21	224	5	0.01	376	0.61	273	21	0.03	1180	1.93
175	2	0.00	128	0.21	225	11	0.02	387	0.63	274	22	0.04	1202	1.96
176	2	0.00	130	0.21	226	6	0.01	393	0.64	275	29	0.05	1231	2.01
177	4	0.01	134	0.22	227	10	0.02	403	0.66	276	27	0.04	1258	2.05
178	2	0.00	136	0.22	228	4	0.01	407	0.66	277	28	0.05	1286	2.10
179	6	0.01	142	0.23	229	4	0.01	411	0.67	278	35	0.06	1321	2.16
180	2	0.00	144	0.23	230	15	0.02	426	0.69	279	30	0.05	1351	2.20
181	4	0.01	148	0.24	231	9	0.01	435	0.71	280	37	0.06	1388	2.26
182	4	0.01	152	0.25	232	8	0.01	443	0.72	281	35	0.06	1423	2.32
183	1	0.00	153	0.25	233	15	0.02	458	0.75	282	34	0.06	1457	2.38
185	4	0.01	157	0.26	234	11	0.02	469	0.77	283	26	0.04	1483	2.42
186	4	0.01	161	0.26	235	9	0.01	478	0.78	284	33	0.05	1516	2.47
187	8	0.01	169	0.28	236	8	0.01	486	0.79	285	34	0.06	1550	2.53
188	2	0.00	171	0.28	237	17	0.03	503	0.82	286	34	0.06	1584	2.58
189	3	0.00	174	0.28	238	7	0.01	510	0.83	287	33	0.05	1617	2.64
190	4	0.01	178	0.29	239	12	0.02	522	0.85	288	36	0.06	1653	2.70
191	4	0.01	182	0.30	240	10	0.02	532	0.87	289	40	0.07	1693	2.76
192	4	0.01	186	0.30	241	14	0.02	546	0.89	290	53	0.09	1746	2.85
193	4	0.01	190	0.31	242	15	0.02	561	0.92	291	32	0.05	1778	2.90
194	4	0.01	194	0.32	243	10	0.02	571	0.93	292	43	0.07	1821	2.97
195	5	0.01	199	0.32	244	11	0.02	582	0.95	293	41	0.07	1862	3.04
196	2	0.00	201	0.33	245	6	0.01	588	0.96	294	44	0.07	1906	3.11
197	7	0.01	208	0.34	246	14	0.02	602	0.98	295	37	0.06	1943	3.17
198	7	0.01	215	0.35	247	19	0.03	621	1.01	296	44	0.07	1987	3.24
199	3	0.00	218	0.36	248	20	0.03	641	1.05	297	42	0.07	2029	3.31
200	3	0.00	221	0.36	249	21	0.03	662	1.08	298	46	0.08	2075	3.39
201	6	0.01	227	0.37	250	16	0.03	678	1.11	299	43	0.07	2118	3.46
202	5	0.01	232	0.38	251	21	0.03	699	1.14	300	47	0.08	2165	3.53
203	4	0.01	236	0.39	252	10	0.02	709	1.16	301	42	0.07	2207	3.60

**Table 163. Mathematics Grade 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. %
302	43	0.07	2250	3.67	351	121	0.20	6256	10.21	400	205	0.33	14527	23.70
303	42	0.07	2292	3.74	352	125	0.20	6381	10.41	401	206	0.34	14733	24.04
304	60	0.10	2352	3.84	353	99	0.16	6480	10.57	402	227	0.37	14960	24.41
305	55	0.09	2407	3.93	354	140	0.23	6620	10.80	403	228	0.37	15188	24.78
306	41	0.07	2448	3.99	355	118	0.19	6738	10.99	404	252	0.41	15440	25.19
307	53	0.09	2501	4.08	356	118	0.19	6856	11.18	405	229	0.37	15669	25.56
308	58	0.09	2559	4.17	357	112	0.18	6968	11.37	406	245	0.40	15914	25.96
309	66	0.11	2625	4.28	358	157	0.26	7125	11.62	407	241	0.39	16155	26.35
310	56	0.09	2681	4.37	359	146	0.24	7271	11.86	408	265	0.43	16420	26.79
311	57	0.09	2738	4.47	360	119	0.19	7390	12.06	409	233	0.38	16653	27.17
312	56	0.09	2794	4.56	361	140	0.23	7530	12.28	410	263	0.43	16916	27.60
313	63	0.10	2857	4.66	362	153	0.25	7683	12.53	411	244	0.40	17160	27.99
314	63	0.10	2920	4.76	363	158	0.26	7841	12.79	412	242	0.39	17402	28.39
315	74	0.12	2994	4.88	364	141	0.23	7982	13.02	413	238	0.39	17640	28.78
316	72	0.12	3066	5.00	365	129	0.21	8111	13.23	414	242	0.39	17882	29.17
317	56	0.09	3122	5.09	366	153	0.25	8264	13.48	415	242	0.39	18124	29.57
318	53	0.09	3175	5.18	367	163	0.27	8427	13.75	416	252	0.41	18376	29.98
319	66	0.11	3241	5.29	368	170	0.28	8597	14.02	417	250	0.41	18626	30.39
320	68	0.11	3309	5.40	369	153	0.25	8750	14.27	418	230	0.38	18856	30.76
321	65	0.11	3374	5.50	370	164	0.27	8914	14.54	419	224	0.37	19080	31.13
322	61	0.10	3435	5.60	371	170	0.28	9084	14.82	420	254	0.41	19334	31.54
323	77	0.13	3512	5.73	372	129	0.21	9213	15.03	421	263	0.43	19597	31.97
324	80	0.13	3592	5.86	373	157	0.26	9370	15.29	422	260	0.42	19857	32.39
325	70	0.11	3662	5.97	374	166	0.27	9536	15.56	423	263	0.43	20120	32.82
326	79	0.13	3741	6.10	375	170	0.28	9706	15.83	424	274	0.45	20394	33.27
327	81	0.13	3822	6.24	376	157	0.26	9863	16.09	425	271	0.44	20665	33.71
328	88	0.14	3910	6.38	377	168	0.27	10031	16.36	426	294	0.48	20959	34.19
329	83	0.14	3993	6.51	378	165	0.27	10196	16.63	427	254	0.41	21213	34.61
330	93	0.15	4086	6.67	379	172	0.28	10368	16.91	428	257	0.42	21470	35.03
331	95	0.15	4181	6.82	380	155	0.25	10523	17.17	429	302	0.49	21772	35.52
332	92	0.15	4273	6.97	381	171	0.28	10694	17.45	430	295	0.48	22067	36.00
333	93	0.15	4366	7.12	382	177	0.29	10871	17.73	431	296	0.48	22363	36.48
334	96	0.16	4462	7.28	383	187	0.31	11058	18.04	432	304	0.50	22667	36.98
335	94	0.15	4556	7.43	384	170	0.28	11228	18.32	433	268	0.44	22935	37.42
336	99	0.16	4655	7.59	385	189	0.31	11417	18.63	434	296	0.48	23231	37.90
337	98	0.16	4753	7.75	386	199	0.32	11616	18.95	435	275	0.45	23506	38.35
338	112	0.18	4865	7.94	387	219	0.36	11835	19.31	436	285	0.46	23791	38.81
339	96	0.16	4961	8.09	388	205	0.33	12040	19.64	437	259	0.42	24050	39.23
340	88	0.14	5049	8.24	389	199	0.32	12239	19.97	438	302	0.49	24352	39.73
341	90	0.15	5139	8.38	390	197	0.32	12436	20.29	439	313	0.51	24665	40.24
342	120	0.20	5259	8.58	391	195	0.32	12631	20.61	440	294	0.48	24959	40.72
343	107	0.17	5366	8.75	392	198	0.32	12829	20.93	441	316	0.52	25275	41.23
344	107	0.17	5473	8.93	393	213	0.35	13042	21.28	442	278	0.45	25553	41.69
345	113	0.18	5586	9.11	394	217	0.35	13259	21.63	443	298	0.49	25851	42.17
346	102	0.17	5688	9.28	395	201	0.33	13460	21.96	444	302	0.49	26153	42.67
347	92	0.15	5780	9.43	396	188	0.31	13648	22.27	445	291	0.47	26444	43.14
348	106	0.17	5886	9.60	397	216	0.35	13864	22.62	446	265	0.43	26709	43.57
349	124	0.20	6010	9.80	398	236	0.39	14100	23.00	447	306	0.50	27015	44.07
350	125	0.20	6135	10.01	399	222	0.36	14322	23.36	448	293	0.48	27308	44.55



**Table 163. Mathematics Grade 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. %
449	290	0.47	27598	45.02	498	276	0.45	42272	68.96	547	159	0.26	52773	86.09
450	247	0.40	27845	45.43	499	264	0.43	42536	69.39	548	141	0.23	52914	86.32
451	327	0.53	28172	45.96	500	269	0.44	42805	69.83	549	162	0.26	53076	86.59
452	322	0.53	28494	46.48	501	272	0.44	43077	70.27	550	147	0.24	53223	86.83
453	309	0.50	28803	46.99	502	277	0.45	43354	70.73	551	151	0.25	53374	87.07
454	294	0.48	29097	47.47	503	250	0.41	43604	71.13	552	158	0.26	53532	87.33
455	318	0.52	29415	47.99	504	274	0.45	43878	71.58	553	158	0.26	53690	87.59
456	326	0.53	29741	48.52	505	248	0.40	44126	71.99	554	145	0.24	53835	87.83
457	300	0.49	30041	49.01	506	255	0.42	44381	72.40	555	146	0.24	53981	88.06
458	323	0.53	30364	49.54	507	228	0.37	44609	72.77	556	123	0.20	54104	88.26
459	297	0.48	30661	50.02	508	224	0.37	44833	73.14	557	164	0.27	54268	88.53
460	315	0.51	30976	50.53	509	240	0.39	45073	73.53	558	136	0.22	54404	88.75
461	317	0.52	31293	51.05	510	231	0.38	45304	73.91	559	106	0.17	54510	88.93
462	299	0.49	31592	51.54	511	244	0.40	45548	74.31	560	125	0.20	54635	89.13
463	320	0.52	31912	52.06	512	245	0.40	45793	74.71	561	124	0.20	54759	89.33
464	321	0.52	32233	52.58	513	254	0.41	46047	75.12	562	106	0.17	54865	89.51
465	326	0.53	32559	53.12	514	236	0.39	46283	75.50	563	138	0.23	55003	89.73
466	300	0.49	32859	53.61	515	248	0.40	46531	75.91	564	96	0.16	55099	89.89
467	317	0.52	33176	54.12	516	237	0.39	46768	76.30	565	144	0.23	55243	90.12
468	295	0.48	33471	54.60	517	240	0.39	47008	76.69	566	89	0.15	55332	90.27
469	315	0.51	33786	55.12	518	247	0.40	47255	77.09	567	125	0.20	55457	90.47
470	306	0.50	34092	55.62	519	230	0.38	47485	77.47	568	97	0.16	55554	90.63
471	315	0.51	34407	56.13	520	215	0.35	47700	77.82	569	132	0.22	55686	90.84
472	315	0.51	34722	56.64	521	232	0.38	47932	78.20	570	103	0.17	55789	91.01
473	316	0.52	35038	57.16	522	210	0.34	48142	78.54	571	118	0.19	55907	91.21
474	317	0.52	35355	57.68	523	192	0.31	48334	78.85	572	110	0.18	56017	91.38
475	303	0.49	35658	58.17	524	220	0.36	48554	79.21	573	88	0.14	56105	91.53
476	290	0.47	35948	58.64	525	235	0.38	48789	79.59	574	111	0.18	56216	91.71
477	291	0.47	36239	59.12	526	197	0.32	48986	79.91	575	82	0.13	56298	91.84
478	288	0.47	36527	59.59	527	221	0.36	49207	80.28	576	83	0.14	56381	91.98
479	297	0.48	36824	60.07	528	205	0.33	49412	80.61	577	77	0.13	56458	92.10
480	309	0.50	37133	60.58	529	196	0.32	49608	80.93	578	80	0.13	56538	92.23
481	292	0.48	37425	61.05	530	210	0.34	49818	81.27	579	74	0.12	56612	92.36
482	314	0.51	37739	61.57	531	187	0.31	50005	81.58	580	94	0.15	56706	92.51
483	307	0.50	38046	62.07	532	195	0.32	50200	81.90	581	94	0.15	56800	92.66
484	301	0.49	38347	62.56	533	190	0.31	50390	82.20	582	112	0.18	56912	92.84
485	302	0.49	38649	63.05	534	190	0.31	50580	82.51	583	70	0.11	56982	92.96
486	300	0.49	38949	63.54	535	169	0.28	50749	82.79	584	65	0.11	57047	93.07
487	272	0.44	39221	63.98	536	168	0.27	50917	83.06	585	70	0.11	57117	93.18
488	269	0.44	39490	64.42	537	148	0.24	51065	83.31	586	60	0.10	57177	93.28
489	263	0.43	39753	64.85	538	177	0.29	51242	83.59	587	56	0.09	57233	93.37
490	290	0.47	40043	65.33	539	163	0.27	51405	83.86	588	94	0.15	57327	93.52
491	306	0.50	40349	65.82	540	194	0.32	51599	84.18	589	55	0.09	57382	93.61
492	260	0.42	40609	66.25	541	195	0.32	51794	84.50	590	71	0.12	57453	93.73
493	283	0.46	40892	66.71	542	172	0.28	51966	84.78	591	52	0.08	57505	93.81
494	296	0.48	41188	67.19	543	172	0.28	52138	85.06	592	114	0.19	57619	94.00
495	262	0.43	41450	67.62	544	164	0.27	52302	85.32	593	77	0.13	57696	94.12
496	277	0.45	41727	68.07	545	166	0.27	52468	85.59	594	70	0.11	57766	94.24
497	269	0.44	41996	68.51	546	146	0.24	52614	85.83	595	25	0.04	57791	94.28

**Table 163. Mathematics Grade 3 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
596	67	0.11	57858	94.39	652	50	0.08	59999	97.88
597	95	0.15	57953	94.54	656	16	0.03	60015	97.91
598	32	0.05	57985	94.60	657	9	0.01	60024	97.92
599	60	0.10	58045	94.69	658	152	0.25	60176	98.17
600	54	0.09	58099	94.78	660	61	0.10	60237	98.27
601	17	0.03	58116	94.81	663	21	0.03	60258	98.30
602	46	0.08	58162	94.88	666	16	0.03	60274	98.33
603	90	0.15	58252	95.03	667	23	0.04	60297	98.37
604	52	0.08	58304	95.12	673	45	0.07	60342	98.44
605	59	0.10	58363	95.21	679	20	0.03	60362	98.47
606	81	0.13	58444	95.34	681	39	0.06	60401	98.54
607	44	0.07	58488	95.42	688	8	0.01	60409	98.55
608	37	0.06	58525	95.48	698	290	0.47	60699	99.02
609	33	0.05	58558	95.53	700	599	0.98	61298	100.00
610	162	0.26	58720	95.79					
611	24	0.04	58744	95.83					
612	28	0.05	58772	95.88					
613	63	0.10	58835	95.98					
614	16	0.03	58851	96.01					
615	30	0.05	58881	96.06					
616	19	0.03	58900	96.09					
617	27	0.04	58927	96.13					
618	16	0.03	58943	96.16					
619	48	0.08	58991	96.24					
620	45	0.07	59036	96.31					
621	1	0.00	59037	96.31					
622	48	0.08	59085	96.39					
623	13	0.02	59098	96.41					
624	17	0.03	59115	96.44					
625	125	0.20	59240	96.64					
626	52	0.08	59292	96.73					
627	3	0.00	59295	96.73					
628	21	0.03	59316	96.77					
629	60	0.10	59376	96.86					
630	6	0.01	59382	96.87					
631	34	0.06	59416	96.93					
632	13	0.02	59429	96.95					
633	139	0.23	59568	97.18					
634	36	0.06	59604	97.24					
635	44	0.07	59648	97.31					
638	29	0.05	59677	97.36					
639	62	0.10	59739	97.46					
642	12	0.02	59751	97.48					
645	28	0.05	59779	97.52					
646	16	0.03	59795	97.55					
647	118	0.19	59913	97.74					
648	4	0.01	59917	97.75					
650	24	0.04	59941	97.79					
651	8	0.01	59949	97.80					

**Table 164. Reading Grade 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	252	0.42	252	0.42	331	4	0.01	345	0.58	381	10	0.02	624	1.05
198	1	0.00	253	0.42	332	3	0.01	348	0.58	382	10	0.02	634	1.06
213	1	0.00	254	0.43	333	3	0.01	351	0.59	383	12	0.02	646	1.08
221	1	0.00	255	0.43	334	3	0.01	354	0.59	384	10	0.02	656	1.10
249	1	0.00	256	0.43	335	2	0.00	356	0.60	385	16	0.03	672	1.13
251	1	0.00	257	0.43	337	2	0.00	358	0.60	386	11	0.02	683	1.15
252	1	0.00	258	0.43	338	2	0.00	360	0.60	387	11	0.02	694	1.17
259	1	0.00	259	0.43	339	2	0.00	362	0.61	388	11	0.02	705	1.18
260	2	0.00	261	0.44	340	3	0.01	365	0.61	389	11	0.02	716	1.20
262	1	0.00	262	0.44	341	5	0.01	370	0.62	390	8	0.01	724	1.22
263	1	0.00	263	0.44	342	1	0.00	371	0.62	391	12	0.02	736	1.24
272	1	0.00	264	0.44	343	8	0.01	379	0.64	392	9	0.02	745	1.25
273	2	0.00	266	0.45	344	9	0.02	388	0.65	393	8	0.01	753	1.26
275	2	0.00	268	0.45	345	3	0.01	391	0.66	394	10	0.02	763	1.28
276	1	0.00	269	0.45	346	4	0.01	395	0.66	395	13	0.02	776	1.30
282	1	0.00	270	0.45	347	1	0.00	396	0.66	396	18	0.03	794	1.33
283	1	0.00	271	0.46	348	7	0.01	403	0.68	397	15	0.03	809	1.36
284	1	0.00	272	0.46	349	3	0.01	406	0.68	398	11	0.02	820	1.38
285	1	0.00	273	0.46	350	6	0.01	412	0.69	399	11	0.02	831	1.40
286	1	0.00	274	0.46	351	5	0.01	417	0.70	400	12	0.02	843	1.42
289	5	0.01	279	0.47	352	2	0.00	419	0.70	401	14	0.02	857	1.44
291	2	0.00	281	0.47	353	6	0.01	425	0.71	402	15	0.03	872	1.46
292	1	0.00	282	0.47	354	4	0.01	429	0.72	403	16	0.03	888	1.49
294	1	0.00	283	0.48	355	7	0.01	436	0.73	404	21	0.04	909	1.53
298	2	0.00	285	0.48	356	5	0.01	441	0.74	405	14	0.02	923	1.55
301	2	0.00	287	0.48	357	9	0.02	450	0.76	406	16	0.03	939	1.58
302	4	0.01	291	0.49	358	5	0.01	455	0.76	407	13	0.02	952	1.60
305	1	0.00	292	0.49	359	7	0.01	462	0.78	408	9	0.02	961	1.61
306	1	0.00	293	0.49	360	4	0.01	466	0.78	409	15	0.03	976	1.64
307	3	0.01	296	0.50	361	3	0.01	469	0.79	410	25	0.04	1001	1.68
309	1	0.00	297	0.50	362	1	0.00	470	0.79	411	21	0.04	1022	1.72
310	1	0.00	298	0.50	363	7	0.01	477	0.80	412	28	0.05	1050	1.76
311	2	0.00	300	0.50	364	4	0.01	481	0.81	413	17	0.03	1067	1.79
312	2	0.00	302	0.51	365	9	0.02	490	0.82	414	19	0.03	1086	1.82
313	3	0.01	305	0.51	366	5	0.01	495	0.83	415	16	0.03	1102	1.85
315	1	0.00	306	0.51	367	13	0.02	508	0.85	416	19	0.03	1121	1.88
316	1	0.00	307	0.52	368	12	0.02	520	0.87	417	17	0.03	1138	1.91
318	6	0.01	313	0.53	369	6	0.01	526	0.88	418	17	0.03	1155	1.94
319	2	0.00	315	0.53	370	12	0.02	538	0.90	419	17	0.03	1172	1.97
320	8	0.01	323	0.54	371	3	0.01	541	0.91	420	28	0.05	1200	2.02
322	2	0.00	325	0.55	372	7	0.01	548	0.92	421	24	0.04	1224	2.06
323	1	0.00	326	0.55	373	8	0.01	556	0.93	422	28	0.05	1252	2.10
324	1	0.00	327	0.55	374	6	0.01	562	0.94	423	23	0.04	1275	2.14
325	1	0.00	328	0.55	375	9	0.02	571	0.96	424	26	0.04	1301	2.18
326	2	0.00	330	0.55	376	8	0.01	579	0.97	425	27	0.05	1328	2.23
327	3	0.01	333	0.56	377	10	0.02	589	0.99	426	35	0.06	1363	2.29
328	2	0.00	335	0.56	378	8	0.01	597	1.00	427	20	0.03	1383	2.32
329	1	0.00	336	0.56	379	11	0.02	608	1.02	428	35	0.06	1418	2.38
330	5	0.01	341	0.57	380	6	0.01	614	1.03	429	23	0.04	1441	2.42

**Table 164. Reading Grade 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. %
430	32	0.05	1473	2.47	479	56	0.09	3644	6.12	528	202	0.34	9544	16.03
431	25	0.04	1498	2.52	480	64	0.11	3708	6.23	529	179	0.30	9723	16.33
432	26	0.04	1524	2.56	481	70	0.12	3778	6.34	530	176	0.30	9899	16.62
433	27	0.05	1551	2.60	482	73	0.12	3851	6.47	531	175	0.29	10074	16.92
434	31	0.05	1582	2.66	483	74	0.12	3925	6.59	532	198	0.33	10272	17.25
435	30	0.05	1612	2.71	484	100	0.17	4025	6.76	533	196	0.33	10468	17.58
436	28	0.05	1640	2.75	485	72	0.12	4097	6.88	534	200	0.34	10668	17.91
437	33	0.06	1673	2.81	486	93	0.16	4190	7.04	535	195	0.33	10863	18.24
438	32	0.05	1705	2.86	487	67	0.11	4257	7.15	536	242	0.41	11105	18.65
439	35	0.06	1740	2.92	488	83	0.14	4340	7.29	537	213	0.36	11318	19.01
440	33	0.06	1773	2.98	489	82	0.14	4422	7.43	538	238	0.40	11556	19.40
441	34	0.06	1807	3.03	490	100	0.17	4522	7.59	539	229	0.38	11785	19.79
442	37	0.06	1844	3.10	491	92	0.15	4614	7.75	540	204	0.34	11989	20.13
443	30	0.05	1874	3.15	492	102	0.17	4716	7.92	541	216	0.36	12205	20.49
444	42	0.07	1916	3.22	493	90	0.15	4806	8.07	542	230	0.39	12435	20.88
445	39	0.07	1955	3.28	494	99	0.17	4905	8.24	543	217	0.36	12652	21.25
446	34	0.06	1989	3.34	495	97	0.16	5002	8.40	544	235	0.39	12887	21.64
447	28	0.05	2017	3.39	496	108	0.18	5110	8.58	545	225	0.38	13112	22.02
448	36	0.06	2053	3.45	497	115	0.19	5225	8.77	546	254	0.43	13366	22.44
449	31	0.05	2084	3.50	498	99	0.17	5324	8.94	547	248	0.42	13614	22.86
450	30	0.05	2114	3.55	499	100	0.17	5424	9.11	548	228	0.38	13842	23.24
451	33	0.06	2147	3.61	500	125	0.21	5549	9.32	549	256	0.43	14098	23.67
452	39	0.07	2186	3.67	501	98	0.16	5647	9.48	550	257	0.43	14355	24.10
453	44	0.07	2230	3.74	502	116	0.19	5763	9.68	551	267	0.45	14622	24.55
454	49	0.08	2279	3.83	503	132	0.22	5895	9.90	552	264	0.44	14886	25.00
455	41	0.07	2320	3.90	504	130	0.22	6025	10.12	553	271	0.46	15157	25.45
456	44	0.07	2364	3.97	505	100	0.17	6125	10.29	554	274	0.46	15431	25.91
457	41	0.07	2405	4.04	506	118	0.20	6243	10.48	555	263	0.44	15694	26.35
458	55	0.09	2460	4.13	507	107	0.18	6350	10.66	556	266	0.45	15960	26.80
459	40	0.07	2500	4.20	508	141	0.24	6491	10.90	557	281	0.47	16241	27.27
460	53	0.09	2553	4.29	509	122	0.20	6613	11.10	558	299	0.50	16540	27.77
461	63	0.11	2616	4.39	510	115	0.19	6728	11.30	559	300	0.50	16840	28.28
462	56	0.09	2672	4.49	511	146	0.25	6874	11.54	560	267	0.45	17107	28.73
463	48	0.08	2720	4.57	512	131	0.22	7005	11.76	561	306	0.51	17413	29.24
464	51	0.09	2771	4.65	513	123	0.21	7128	11.97	562	317	0.53	17730	29.77
465	54	0.09	2825	4.74	514	149	0.25	7277	12.22	563	297	0.50	18027	30.27
466	50	0.08	2875	4.83	515	147	0.25	7424	12.47	564	293	0.49	18320	30.76
467	60	0.10	2935	4.93	516	162	0.27	7586	12.74	565	329	0.55	18649	31.32
468	52	0.09	2987	5.02	517	141	0.24	7727	12.98	566	337	0.57	18986	31.88
469	66	0.11	3053	5.13	518	149	0.25	7876	13.23	567	318	0.53	19304	32.42
470	60	0.10	3113	5.23	519	162	0.27	8038	13.50	568	359	0.60	19663	33.02
471	56	0.09	3169	5.32	520	168	0.28	8206	13.78	569	346	0.58	20009	33.60
472	54	0.09	3223	5.41	521	165	0.28	8371	14.06	570	312	0.52	20321	34.12
473	52	0.09	3275	5.50	522	156	0.26	8527	14.32	571	320	0.54	20641	34.66
474	62	0.10	3337	5.60	523	175	0.29	8702	14.61	572	341	0.57	20982	35.23
475	59	0.10	3396	5.70	524	152	0.26	8854	14.87	573	360	0.60	21342	35.84
476	56	0.09	3452	5.80	525	151	0.25	9005	15.12	574	334	0.56	21676	36.40
477	58	0.10	3510	5.89	526	162	0.27	9167	15.39	575	356	0.60	22032	37.00
478	78	0.13	3588	6.02	527	175	0.29	9342	15.69	576	365	0.61	22397	37.61

**Table 164. Reading Grade 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. %
577	364	0.61	22761	38.22	626	410	0.69	43176	72.50	675	149	0.25	56456	94.80
578	394	0.66	23155	38.88	627	396	0.66	43572	73.17	676	132	0.22	56588	95.02
579	366	0.61	23521	39.50	628	380	0.64	43952	73.80	677	135	0.23	56723	95.25
580	401	0.67	23922	40.17	629	392	0.66	44344	74.46	678	135	0.23	56858	95.48
581	388	0.65	24310	40.82	630	376	0.63	44720	75.09	679	124	0.21	56982	95.68
582	360	0.60	24670	41.43	631	326	0.55	45046	75.64	680	117	0.20	57099	95.88
583	379	0.64	25049	42.06	632	378	0.63	45424	76.28	681	88	0.15	57187	96.03
584	395	0.66	25444	42.73	633	353	0.59	45777	76.87	682	103	0.17	57290	96.20
585	368	0.62	25812	43.34	634	377	0.63	46154	77.50	683	114	0.19	57404	96.39
586	421	0.71	26233	44.05	635	371	0.62	46525	78.13	684	103	0.17	57507	96.57
587	410	0.69	26643	44.74	636	333	0.56	46858	78.68	685	75	0.13	57582	96.69
588	408	0.69	27051	45.42	637	369	0.62	47227	79.30	686	91	0.15	57673	96.84
589	385	0.65	27436	46.07	638	369	0.62	47596	79.92	687	89	0.15	57762	96.99
590	389	0.65	27825	46.72	639	342	0.57	47938	80.50	688	71	0.12	57833	97.11
591	376	0.63	28201	47.36	640	334	0.56	48272	81.06	689	76	0.13	57909	97.24
592	398	0.67	28599	48.02	641	319	0.54	48591	81.59	690	57	0.10	57966	97.34
593	438	0.74	29037	48.76	642	323	0.54	48914	82.14	691	75	0.13	58041	97.46
594	430	0.72	29467	49.48	643	326	0.55	49240	82.68	692	69	0.12	58110	97.58
595	392	0.66	29859	50.14	644	336	0.56	49576	83.25	693	63	0.11	58173	97.68
596	391	0.66	30250	50.80	645	322	0.54	49898	83.79	694	77	0.13	58250	97.81
597	460	0.77	30710	51.57	646	294	0.49	50192	84.28	695	58	0.10	58308	97.91
598	455	0.76	31165	52.33	647	280	0.47	50472	84.75	696	71	0.12	58379	98.03
599	447	0.75	31612	53.08	648	293	0.49	50765	85.24	697	60	0.10	58439	98.13
600	438	0.74	32050	53.82	649	281	0.47	51046	85.72	698	46	0.08	58485	98.21
601	424	0.71	32474	54.53	650	292	0.49	51338	86.21	699	45	0.08	58530	98.28
602	443	0.74	32917	55.27	651	255	0.43	51593	86.64	700	42	0.07	58572	98.35
603	454	0.76	33371	56.04	652	287	0.48	51880	87.12	701	59	0.10	58631	98.45
604	419	0.70	33790	56.74	653	237	0.40	52117	87.52	702	46	0.08	58677	98.53
605	419	0.70	34209	57.44	654	270	0.45	52387	87.97	703	45	0.08	58722	98.61
606	445	0.75	34654	58.19	655	268	0.45	52655	88.42	704	37	0.06	58759	98.67
607	422	0.71	35076	58.90	656	252	0.42	52907	88.84	705	39	0.07	58798	98.73
608	436	0.73	35512	59.63	657	222	0.37	53129	89.21	706	36	0.06	58834	98.79
609	431	0.72	35943	60.36	658	226	0.38	53355	89.59	707	38	0.06	58872	98.86
610	444	0.75	36387	61.10	659	232	0.39	53587	89.98	708	31	0.05	58903	98.91
611	408	0.69	36795	61.79	660	215	0.36	53802	90.34	709	33	0.06	58936	98.97
612	429	0.72	37224	62.51	661	212	0.36	54014	90.70	710	34	0.06	58970	99.02
613	436	0.73	37660	63.24	662	228	0.38	54242	91.08	711	30	0.05	59000	99.07
614	418	0.70	38078	63.94	663	224	0.38	54466	91.46	712	36	0.06	59036	99.13
615	427	0.72	38505	64.66	664	184	0.31	54650	91.77	713	30	0.05	59066	99.18
616	463	0.78	38968	65.44	665	195	0.33	54845	92.10	714	28	0.05	59094	99.23
617	429	0.72	39397	66.16	666	181	0.30	55026	92.40	715	27	0.05	59121	99.28
618	431	0.72	39828	66.88	667	179	0.30	55205	92.70	716	16	0.03	59137	99.30
619	418	0.70	40246	67.58	668	163	0.27	55368	92.97	717	21	0.04	59158	99.34
620	415	0.70	40661	68.28	669	162	0.27	55530	93.25	718	23	0.04	59181	99.38
621	446	0.75	41107	69.03	670	170	0.29	55700	93.53	719	19	0.03	59200	99.41
622	426	0.72	41533	69.74	671	170	0.29	55870	93.82	720	13	0.02	59213	99.43
623	394	0.66	41927	70.40	672	140	0.24	56010	94.05	721	21	0.04	59234	99.47
624	418	0.70	42345	71.11	673	145	0.24	56155	94.30	722	21	0.04	59255	99.50
625	421	0.71	42766	71.81	674	152	0.26	56307	94.55	723	13	0.02	59268	99.52

**Table 164. Reading Grade 4 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
724	13	0.02	59281	99.54	777	1	0.00	59533	99.97
725	13	0.02	59294	99.57	779	1	0.00	59534	99.97
726	12	0.02	59306	99.59	780	1	0.00	59535	99.97
727	10	0.02	59316	99.60	783	2	0.00	59537	99.97
728	16	0.03	59332	99.63	785	1	0.00	59538	99.98
729	12	0.02	59344	99.65	791	2	0.00	59540	99.98
730	12	0.02	59356	99.67	794	1	0.00	59541	99.98
731	7	0.01	59363	99.68	802	1	0.00	59542	99.98
732	5	0.01	59368	99.69	807	1	0.00	59543	99.98
733	9	0.02	59377	99.71	809	1	0.00	59544	99.99
734	11	0.02	59388	99.72	811	1	0.00	59545	99.99
735	7	0.01	59395	99.74	821	1	0.00	59546	99.99
736	11	0.02	59406	99.75	841	1	0.00	59547	99.99
737	5	0.01	59411	99.76	842	1	0.00	59548	99.99
738	7	0.01	59418	99.77	843	1	0.00	59549	99.99
739	9	0.02	59427	99.79	849	1	0.00	59550	100.00
740	5	0.01	59432	99.80	865	1	0.00	59551	100.00
741	4	0.01	59436	99.81	921	1	0.00	59552	100.00
742	4	0.01	59440	99.81					
743	10	0.02	59450	99.83					
744	4	0.01	59454	99.84					
745	3	0.01	59457	99.84					
747	1	0.00	59458	99.84					
748	7	0.01	59465	99.85					
749	7	0.01	59472	99.87					
750	2	0.00	59474	99.87					
751	5	0.01	59479	99.88					
752	3	0.01	59482	99.88					
753	2	0.00	59484	99.89					
754	3	0.01	59487	99.89					
755	2	0.00	59489	99.89					
756	4	0.01	59493	99.90					
757	5	0.01	59498	99.91					
758	4	0.01	59502	99.92					
759	1	0.00	59503	99.92					
760	1	0.00	59504	99.92					
761	1	0.00	59505	99.92					
762	5	0.01	59510	99.93					
763	4	0.01	59514	99.94					
764	1	0.00	59515	99.94					
765	4	0.01	59519	99.94					
766	2	0.00	59521	99.95					
768	2	0.00	59523	99.95					
770	1	0.00	59524	99.95					
771	1	0.00	59525	99.95					
772	2	0.00	59527	99.96					
773	1	0.00	59528	99.96					
774	2	0.00	59530	99.96					
775	2	0.00	59532	99.97					

**Table 165. Spanish Reading Grade 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. %
300	3	1.81	3	1.81	518	2	1.20	77	46.39	602	1	0.60	165	99.40
403	1	0.60	4	2.41	520	6	3.61	83	50.00	607	1	0.60	166	100.00
418	1	0.60	5	3.01	524	2	1.20	85	51.20					
435	1	0.60	6	3.61	525	2	1.20	87	52.41					
437	1	0.60	7	4.22	526	2	1.20	89	53.61					
445	1	0.60	8	4.82	527	1	0.60	90	54.22					
446	1	0.60	9	5.42	529	1	0.60	91	54.82					
448	1	0.60	10	6.02	530	4	2.41	95	57.23					
454	2	1.20	12	7.23	531	1	0.60	96	57.83					
455	1	0.60	13	7.83	532	2	1.20	98	59.04					
457	1	0.60	14	8.43	533	1	0.60	99	59.64					
459	1	0.60	15	9.04	534	1	0.60	100	60.24					
460	1	0.60	16	9.64	535	2	1.20	102	61.45					
462	1	0.60	17	10.24	536	3	1.81	105	63.25					
464	2	1.20	19	11.45	537	1	0.60	106	63.86					
465	1	0.60	20	12.05	538	1	0.60	107	64.46					
467	1	0.60	21	12.65	539	3	1.81	110	66.27					
468	2	1.20	23	13.86	542	2	1.20	112	67.47					
470	1	0.60	24	14.46	543	1	0.60	113	68.07					
473	2	1.20	26	15.66	544	3	1.81	116	69.88					
474	1	0.60	27	16.27	545	2	1.20	118	71.08					
476	1	0.60	28	16.87	547	2	1.20	120	72.29					
477	1	0.60	29	17.47	548	4	2.41	124	74.70					
478	1	0.60	30	18.07	549	2	1.20	126	75.90					
482	1	0.60	31	18.67	551	2	1.20	128	77.11					
483	1	0.60	32	19.28	552	3	1.81	131	78.92					
485	1	0.60	33	19.88	553	1	0.60	132	79.52					
486	3	1.81	36	21.69	555	1	0.60	133	80.12					
487	1	0.60	37	22.29	559	2	1.20	135	81.33					
488	2	1.20	39	23.49	560	1	0.60	136	81.93					
490	1	0.60	40	24.10	561	1	0.60	137	82.53					
492	4	2.41	44	26.51	563	2	1.20	139	83.73					
494	2	1.20	46	27.71	567	1	0.60	140	84.34					
495	1	0.60	47	28.31	568	3	1.81	143	86.14					
496	2	1.20	49	29.52	569	1	0.60	144	86.75					
498	1	0.60	50	30.12	570	4	2.41	148	89.16					
499	1	0.60	51	30.72	572	1	0.60	149	89.76					
501	2	1.20	53	31.93	574	1	0.60	150	90.36					
502	2	1.20	55	33.13	575	1	0.60	151	90.96					
504	4	2.41	59	35.54	579	1	0.60	152	91.57					
506	2	1.20	61	36.75	580	1	0.60	153	92.17					
508	4	2.41	65	39.16	581	1	0.60	154	92.77					
509	2	1.20	67	40.36	583	1	0.60	155	93.37					
510	1	0.60	68	40.96	584	2	1.20	157	94.58					
512	2	1.20	70	42.17	585	2	1.20	159	95.78					
513	1	0.60	71	42.77	590	1	0.60	160	96.39					
515	2	1.20	73	43.98	591	2	1.20	162	97.59					
516	1	0.60	74	44.58	594	1	0.60	163	98.19					
517	1	0.60	75	45.18	600	1	0.60	164	98.80					

**Table 166. Writing Grade 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	9	0.02	9	0.02	294	3	0.01	82	0.14	344	11	0.02	368	0.62
191	1	0.00	10	0.02	295	4	0.01	86	0.14	345	14	0.02	382	0.64
194	1	0.00	11	0.02	296	1	0.00	87	0.15	346	12	0.02	394	0.66
196	1	0.00	12	0.02	297	2	0.00	89	0.15	347	11	0.02	405	0.68
203	1	0.00	13	0.02	298	4	0.01	93	0.16	348	12	0.02	417	0.70
204	2	0.00	15	0.03	299	2	0.00	95	0.16	349	16	0.03	433	0.73
208	2	0.00	17	0.03	300	8	0.01	103	0.17	350	13	0.02	446	0.75
209	2	0.00	19	0.03	301	2	0.00	105	0.18	351	17	0.03	463	0.78
210	1	0.00	20	0.03	302	1	0.00	106	0.18	352	11	0.02	474	0.80
211	2	0.00	22	0.04	303	7	0.01	113	0.19	353	25	0.04	499	0.84
213	1	0.00	23	0.04	304	1	0.00	114	0.19	354	19	0.03	518	0.87
215	1	0.00	24	0.04	306	1	0.00	115	0.19	355	24	0.04	542	0.91
225	1	0.00	25	0.04	307	4	0.01	119	0.20	356	15	0.03	557	0.94
227	1	0.00	26	0.04	308	2	0.00	121	0.20	357	28	0.05	585	0.98
236	1	0.00	27	0.05	309	6	0.01	127	0.21	358	18	0.03	603	1.01
237	1	0.00	28	0.05	310	2	0.00	129	0.22	359	22	0.04	625	1.05
238	1	0.00	29	0.05	311	5	0.01	134	0.23	360	29	0.05	654	1.10
241	2	0.00	31	0.05	312	2	0.00	136	0.23	361	17	0.03	671	1.13
242	2	0.00	33	0.06	313	7	0.01	143	0.24	362	23	0.04	694	1.17
243	1	0.00	34	0.06	314	3	0.01	146	0.25	363	18	0.03	712	1.20
244	1	0.00	35	0.06	315	2	0.00	148	0.25	364	31	0.05	743	1.25
245	1	0.00	36	0.06	316	9	0.02	157	0.26	365	26	0.04	769	1.29
252	1	0.00	37	0.06	317	8	0.01	165	0.28	366	37	0.06	806	1.35
255	1	0.00	38	0.06	318	5	0.01	170	0.29	367	32	0.05	838	1.41
256	1	0.00	39	0.07	319	7	0.01	177	0.30	368	25	0.04	863	1.45
257	2	0.00	41	0.07	320	3	0.01	180	0.30	369	30	0.05	893	1.50
258	1	0.00	42	0.07	321	2	0.00	182	0.31	370	29	0.05	922	1.55
260	1	0.00	43	0.07	322	5	0.01	187	0.31	371	30	0.05	952	1.60
262	2	0.00	45	0.08	323	4	0.01	191	0.32	372	50	0.08	1002	1.68
263	1	0.00	46	0.08	324	6	0.01	197	0.33	373	36	0.06	1038	1.74
265	1	0.00	47	0.08	325	2	0.00	199	0.33	374	43	0.07	1081	1.82
266	2	0.00	49	0.08	326	8	0.01	207	0.35	375	43	0.07	1124	1.89
273	1	0.00	50	0.08	327	3	0.01	210	0.35	376	46	0.08	1170	1.96
275	2	0.00	52	0.09	328	8	0.01	218	0.37	377	43	0.07	1213	2.04
276	3	0.01	55	0.09	329	5	0.01	223	0.37	378	49	0.08	1262	2.12
277	2	0.00	57	0.10	330	10	0.02	233	0.39	379	52	0.09	1314	2.21
278	1	0.00	58	0.10	331	4	0.01	237	0.40	380	62	0.10	1376	2.31
279	2	0.00	60	0.10	332	9	0.02	246	0.41	381	71	0.12	1447	2.43
280	2	0.00	62	0.10	333	11	0.02	257	0.43	382	54	0.09	1501	2.52
281	2	0.00	64	0.11	334	7	0.01	264	0.44	383	61	0.10	1562	2.62
282	3	0.01	67	0.11	335	10	0.02	274	0.46	384	46	0.08	1608	2.70
283	1	0.00	68	0.11	336	5	0.01	279	0.47	385	62	0.10	1670	2.80
284	1	0.00	69	0.12	337	10	0.02	289	0.49	386	74	0.12	1744	2.93
285	2	0.00	71	0.12	338	14	0.02	303	0.51	387	62	0.10	1806	3.03
286	2	0.00	73	0.12	339	18	0.03	321	0.54	388	77	0.13	1883	3.16
288	2	0.00	75	0.13	340	5	0.01	326	0.55	389	69	0.12	1952	3.28
290	1	0.00	76	0.13	341	7	0.01	333	0.56	390	67	0.11	2019	3.39
292	2	0.00	78	0.13	342	11	0.02	344	0.58	391	87	0.15	2106	3.54
293	1	0.00	79	0.13	343	13	0.02	357	0.60	392	79	0.13	2185	3.67



**Table 166. Writing Grade 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. %
393	102	0.17	2287	3.84	442	294	0.49	11782	19.79	491	479	0.80	32853	55.17
394	99	0.17	2386	4.01	443	319	0.54	12101	20.32	492	495	0.83	33348	56.00
395	86	0.14	2472	4.15	444	309	0.52	12410	20.84	493	514	0.86	33862	56.87
396	89	0.15	2561	4.30	445	310	0.52	12720	21.36	494	496	0.83	34358	57.70
397	113	0.19	2674	4.49	446	346	0.58	13066	21.94	495	510	0.86	34868	58.55
398	91	0.15	2765	4.64	447	348	0.58	13414	22.53	496	513	0.86	35381	59.42
399	118	0.20	2883	4.84	448	333	0.56	13747	23.09	497	466	0.78	35847	60.20
400	118	0.20	3001	5.04	449	356	0.60	14103	23.68	498	451	0.76	36298	60.96
401	126	0.21	3127	5.25	450	351	0.59	14454	24.27	499	475	0.80	36773	61.75
402	140	0.24	3267	5.49	451	344	0.58	14798	24.85	500	445	0.75	37218	62.50
403	133	0.22	3400	5.71	452	375	0.63	15173	25.48	501	427	0.72	37645	63.22
404	136	0.23	3536	5.94	453	381	0.64	15554	26.12	502	437	0.73	38082	63.95
405	137	0.23	3673	6.17	454	385	0.65	15939	26.77	503	436	0.73	38518	64.68
406	122	0.20	3795	6.37	455	384	0.64	16323	27.41	504	469	0.79	38987	65.47
407	139	0.23	3934	6.61	456	356	0.60	16679	28.01	505	491	0.82	39478	66.30
408	140	0.24	4074	6.84	457	380	0.64	17059	28.65	506	450	0.76	39928	67.05
409	137	0.23	4211	7.07	458	401	0.67	17460	29.32	507	472	0.79	40400	67.84
410	156	0.26	4367	7.33	459	370	0.62	17830	29.94	508	424	0.71	40824	68.56
411	178	0.30	4545	7.63	460	392	0.66	18222	30.60	509	491	0.82	41315	69.38
412	171	0.29	4716	7.92	461	408	0.69	18630	31.29	510	403	0.68	41718	70.06
413	152	0.26	4868	8.17	462	407	0.68	19037	31.97	511	420	0.71	42138	70.76
414	176	0.30	5044	8.47	463	444	0.75	19481	32.71	512	430	0.72	42568	71.49
415	163	0.27	5207	8.74	464	437	0.73	19918	33.45	513	432	0.73	43000	72.21
416	195	0.33	5402	9.07	465	445	0.75	20363	34.20	514	415	0.70	43415	72.91
417	181	0.30	5583	9.38	466	438	0.74	20801	34.93	515	431	0.72	43846	73.63
418	193	0.32	5776	9.70	467	487	0.82	21288	35.75	516	395	0.66	44241	74.29
419	224	0.38	6000	10.08	468	415	0.70	21703	36.45	517	396	0.67	44637	74.96
420	203	0.34	6203	10.42	469	461	0.77	22164	37.22	518	368	0.62	45005	75.58
421	223	0.37	6426	10.79	470	499	0.84	22663	38.06	519	365	0.61	45370	76.19
422	231	0.39	6657	11.18	471	459	0.77	23122	38.83	520	377	0.63	45747	76.82
423	209	0.35	6866	11.53	472	468	0.79	23590	39.62	521	405	0.68	46152	77.50
424	217	0.36	7083	11.89	473	453	0.76	24043	40.38	522	369	0.62	46521	78.12
425	236	0.40	7319	12.29	474	457	0.77	24500	41.14	523	348	0.58	46869	78.71
426	225	0.38	7544	12.67	475	456	0.77	24956	41.91	524	346	0.58	47215	79.29
427	196	0.33	7740	13.00	476	469	0.79	25425	42.70	525	330	0.55	47545	79.84
428	265	0.45	8005	13.44	477	497	0.83	25922	43.53	526	326	0.55	47871	80.39
429	252	0.42	8257	13.87	478	470	0.79	26392	44.32	527	319	0.54	48190	80.93
430	250	0.42	8507	14.29	479	463	0.78	26855	45.10	528	292	0.49	48482	81.42
431	234	0.39	8741	14.68	480	510	0.86	27365	45.95	529	313	0.53	48795	81.94
432	279	0.47	9020	15.15	481	476	0.80	27841	46.75	530	272	0.46	49067	82.40
433	254	0.43	9274	15.57	482	492	0.83	28333	47.58	531	323	0.54	49390	82.94
434	279	0.47	9553	16.04	483	523	0.88	28856	48.46	532	285	0.48	49675	83.42
435	281	0.47	9834	16.51	484	456	0.77	29312	49.22	533	260	0.44	49935	83.86
436	260	0.44	10094	16.95	485	518	0.87	29830	50.09	534	267	0.45	50202	84.31
437	274	0.46	10368	17.41	486	521	0.87	30351	50.97	535	243	0.41	50445	84.71
438	279	0.47	10647	17.88	487	520	0.87	30871	51.84	536	282	0.47	50727	85.19
439	252	0.42	10899	18.30	488	507	0.85	31378	52.69	537	278	0.47	51005	85.65
440	306	0.51	11205	18.82	489	507	0.85	31885	53.55	538	258	0.43	51263	86.09
441	283	0.48	11488	19.29	490	489	0.82	32374	54.37	539	225	0.38	51488	86.46

**Table 166. Writing Grade 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. %
540	268	0.45	51756	86.91	589	47	0.08	58058	97.50	638	7	0.01	59245	99.49
541	231	0.39	51987	87.30	590	46	0.08	58104	97.58	639	8	0.01	59253	99.50
542	251	0.42	52238	87.72	591	45	0.08	58149	97.65	641	67	0.11	59320	99.62
543	238	0.40	52476	88.12	592	36	0.06	58185	97.71	642	8	0.01	59328	99.63
544	221	0.37	52697	88.49	593	22	0.04	58207	97.75	644	7	0.01	59335	99.64
545	176	0.30	52873	88.79	594	42	0.07	58249	97.82	645	5	0.01	59340	99.65
546	209	0.35	53082	89.14	595	50	0.08	58299	97.90	646	7	0.01	59347	99.66
547	239	0.40	53321	89.54	596	49	0.08	58348	97.98	647	5	0.01	59352	99.67
548	192	0.32	53513	89.87	597	53	0.09	58401	98.07	648	6	0.01	59358	99.68
549	172	0.29	53685	90.15	598	67	0.11	58468	98.19	649	4	0.01	59362	99.69
550	168	0.28	53853	90.44	599	28	0.05	58496	98.23	651	1	0.00	59363	99.69
551	173	0.29	54026	90.73	600	28	0.05	58524	98.28	652	6	0.01	59369	99.70
552	171	0.29	54197	91.01	601	41	0.07	58565	98.35	653	1	0.00	59370	99.70
553	164	0.28	54361	91.29	602	20	0.03	58585	98.38	654	26	0.04	59396	99.74
554	161	0.27	54522	91.56	603	45	0.08	58630	98.46	655	19	0.03	59415	99.78
555	174	0.29	54696	91.85	604	32	0.05	58662	98.51	656	5	0.01	59420	99.79
556	152	0.26	54848	92.11	605	36	0.06	58698	98.57	660	2	0.00	59422	99.79
557	151	0.25	54999	92.36	606	45	0.08	58743	98.65	663	6	0.01	59428	99.80
558	116	0.19	55115	92.56	607	6	0.01	58749	98.66	664	3	0.01	59431	99.80
559	174	0.29	55289	92.85	608	12	0.02	58761	98.68	665	7	0.01	59438	99.82
560	162	0.27	55451	93.12	609	29	0.05	58790	98.73	667	1	0.00	59439	99.82
561	126	0.21	55577	93.33	610	29	0.05	58819	98.78	669	1	0.00	59440	99.82
562	135	0.23	55712	93.56	611	5	0.01	58824	98.78	671	2	0.00	59442	99.82
563	151	0.25	55863	93.81	612	55	0.09	58879	98.88	672	1	0.00	59443	99.82
564	111	0.19	55974	94.00	613	14	0.02	58893	98.90	674	1	0.00	59444	99.83
565	106	0.18	56080	94.18	614	18	0.03	58911	98.93	678	2	0.00	59446	99.83
566	100	0.17	56180	94.34	615	18	0.03	58929	98.96	679	2	0.00	59448	99.83
567	155	0.26	56335	94.60	616	3	0.01	58932	98.97	683	4	0.01	59452	99.84
568	131	0.22	56466	94.82	617	13	0.02	58945	98.99	684	18	0.03	59470	99.87
569	87	0.15	56553	94.97	618	22	0.04	58967	99.02	686	35	0.06	59505	99.93
570	93	0.16	56646	95.13	619	20	0.03	58987	99.06	690	2	0.00	59507	99.93
571	118	0.20	56764	95.32	620	25	0.04	59012	99.10	693	4	0.01	59511	99.94
572	95	0.16	56859	95.48	621	8	0.01	59020	99.11	699	1	0.00	59512	99.94
573	64	0.11	56923	95.59	622	124	0.21	59144	99.32	713	16	0.03	59528	99.97
574	105	0.18	57028	95.77	623	4	0.01	59148	99.33	714	2	0.00	59530	99.97
575	54	0.09	57082	95.86	624	4	0.01	59152	99.33	730	18	0.03	59548	100.00
576	76	0.13	57158	95.99	625	10	0.02	59162	99.35					
577	66	0.11	57224	96.10	626	8	0.01	59170	99.37					
578	100	0.17	57324	96.27	627	6	0.01	59176	99.38					
579	68	0.11	57392	96.38	628	17	0.03	59193	99.40					
580	58	0.10	57450	96.48	629	5	0.01	59198	99.41					
581	58	0.10	57508	96.57	630	3	0.01	59201	99.42					
582	61	0.10	57569	96.68	631	11	0.02	59212	99.44					
583	66	0.11	57635	96.79	632	8	0.01	59220	99.45					
584	49	0.08	57684	96.87	633	3	0.01	59223	99.45					
585	180	0.30	57864	97.17	634	3	0.01	59226	99.46					
586	56	0.09	57920	97.27	635	1	0.00	59227	99.46					
587	37	0.06	57957	97.33	636	5	0.01	59232	99.47					
588	54	0.09	58011	97.42	637	6	0.01	59238	99.48					

**Table 167. Spanish Writing Grade 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. %
300	1	0.60	1	0.60	512	1	0.60	79	47.59	573	1	0.60	158	95.18
338	1	0.60	2	1.20	513	1	0.60	80	48.19	578	1	0.60	159	95.78
368	1	0.60	3	1.81	514	1	0.60	81	48.80	580	1	0.60	160	96.39
382	1	0.60	4	2.41	515	3	1.81	84	50.60	583	1	0.60	161	96.99
395	1	0.60	5	3.01	516	1	0.60	85	51.20	587	1	0.60	162	97.59
414	1	0.60	6	3.61	517	2	1.20	87	52.41	588	1	0.60	163	98.19
417	2	1.20	8	4.82	518	1	0.60	88	53.01	602	1	0.60	164	98.80
425	1	0.60	9	5.42	519	5	3.01	93	56.02	604	1	0.60	165	99.40
442	1	0.60	10	6.02	520	4	2.41	97	58.43	621	1	0.60	166	100.00
447	1	0.60	11	6.63	521	3	1.81	100	60.24					
451	2	1.20	13	7.83	522	3	1.81	103	62.05					
452	2	1.20	15	9.04	523	2	1.20	105	63.25					
453	1	0.60	16	9.64	524	3	1.81	108	65.06					
454	1	0.60	17	10.24	525	1	0.60	109	65.66					
456	2	1.20	19	11.45	526	2	1.20	111	66.87					
459	1	0.60	20	12.05	527	1	0.60	112	67.47					
461	1	0.60	21	12.65	528	2	1.20	114	68.67					
465	2	1.20	23	13.86	529	1	0.60	115	69.28					
466	1	0.60	24	14.46	530	4	2.41	119	71.69					
467	2	1.20	26	15.66	531	2	1.20	121	72.89					
472	1	0.60	27	16.27	532	2	1.20	123	74.10					
474	2	1.20	29	17.47	534	1	0.60	124	74.70					
476	2	1.20	31	18.67	535	1	0.60	125	75.30					
477	1	0.60	32	19.28	536	2	1.20	127	76.51					
478	2	1.20	34	20.48	537	1	0.60	128	77.11					
479	1	0.60	35	21.08	538	1	0.60	129	77.71					
480	3	1.81	38	22.89	539	2	1.20	131	78.92					
481	2	1.20	40	24.10	541	1	0.60	132	79.52					
482	1	0.60	41	24.70	542	1	0.60	133	80.12					
483	3	1.81	44	26.51	543	1	0.60	134	80.72					
487	1	0.60	45	27.11	544	1	0.60	135	81.33					
488	1	0.60	46	27.71	545	1	0.60	136	81.93					
490	1	0.60	47	28.31	546	1	0.60	137	82.53					
491	3	1.81	50	30.12	547	1	0.60	138	83.13					
492	2	1.20	52	31.33	548	2	1.20	140	84.34					
494	1	0.60	53	31.93	549	1	0.60	141	84.94					
495	2	1.20	55	33.13	551	1	0.60	142	85.54					
497	2	1.20	57	34.34	552	1	0.60	143	86.14					
498	1	0.60	58	34.94	553	1	0.60	144	86.75					
500	2	1.20	60	36.14	555	1	0.60	145	87.35					
501	2	1.20	62	37.35	558	1	0.60	146	87.95					
502	1	0.60	63	37.95	559	1	0.60	147	88.55					
503	1	0.60	64	38.55	560	2	1.20	149	89.76					
504	2	1.20	66	39.76	563	1	0.60	150	90.36					
506	2	1.20	68	40.96	564	1	0.60	151	90.96					
508	4	2.41	72	43.37	565	1	0.60	152	91.57					
509	2	1.20	74	44.58	566	1	0.60	153	92.17					
510	3	1.81	77	46.39	568	2	1.20	155	93.37					
511	1	0.60	78	46.99	572	2	1.20	157	94.58					

**Table 168. Mathematics Grade 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	59	0.10	59	0.10	235	6	0.01	198	0.33	285	14	0.02	634	1.06
181	2	0.00	61	0.10	236	4	0.01	202	0.34	286	10	0.02	644	1.08
182	2	0.00	63	0.11	237	6	0.01	208	0.35	287	16	0.03	660	1.10
183	1	0.00	64	0.11	239	12	0.02	220	0.37	288	27	0.05	687	1.15
184	1	0.00	65	0.11	240	5	0.01	225	0.38	289	22	0.04	709	1.19
185	4	0.01	69	0.12	241	8	0.01	233	0.39	290	14	0.02	723	1.21
186	1	0.00	70	0.12	242	8	0.01	241	0.40	291	14	0.02	737	1.23
188	3	0.01	73	0.12	243	5	0.01	246	0.41	292	15	0.03	752	1.26
190	3	0.01	76	0.13	244	4	0.01	250	0.42	293	21	0.04	773	1.29
191	1	0.00	77	0.13	245	7	0.01	257	0.43	294	18	0.03	791	1.32
194	2	0.00	79	0.13	246	4	0.01	261	0.44	295	9	0.02	800	1.34
195	1	0.00	80	0.13	247	10	0.02	271	0.45	296	19	0.03	819	1.37
196	2	0.00	82	0.14	248	3	0.01	274	0.46	297	17	0.03	836	1.40
197	1	0.00	83	0.14	249	5	0.01	279	0.47	298	24	0.04	860	1.44
198	2	0.00	85	0.14	250	6	0.01	285	0.48	299	21	0.04	881	1.47
200	3	0.01	88	0.15	251	4	0.01	289	0.48	300	21	0.04	902	1.51
201	1	0.00	89	0.15	252	6	0.01	295	0.49	301	15	0.03	917	1.53
202	1	0.00	90	0.15	253	7	0.01	302	0.50	302	27	0.05	944	1.58
203	2	0.00	92	0.15	254	4	0.01	306	0.51	303	16	0.03	960	1.60
204	3	0.01	95	0.16	255	9	0.02	315	0.53	304	22	0.04	982	1.64
205	1	0.00	96	0.16	256	6	0.01	321	0.54	305	17	0.03	999	1.67
206	3	0.01	99	0.17	257	9	0.02	330	0.55	306	33	0.06	1032	1.73
207	1	0.00	100	0.17	258	5	0.01	335	0.56	307	22	0.04	1054	1.76
208	2	0.00	102	0.17	259	14	0.02	349	0.58	308	26	0.04	1080	1.81
209	1	0.00	103	0.17	260	6	0.01	355	0.59	309	24	0.04	1104	1.85
210	3	0.01	106	0.18	261	7	0.01	362	0.61	310	40	0.07	1144	1.91
212	7	0.01	113	0.19	262	10	0.02	372	0.62	311	23	0.04	1167	1.95
213	2	0.00	115	0.19	263	8	0.01	380	0.64	312	22	0.04	1189	1.99
214	2	0.00	117	0.20	264	12	0.02	392	0.66	313	24	0.04	1213	2.03
215	3	0.01	120	0.20	265	8	0.01	400	0.67	314	32	0.05	1245	2.08
216	1	0.00	121	0.20	266	12	0.02	412	0.69	315	35	0.06	1280	2.14
217	4	0.01	125	0.21	267	6	0.01	418	0.70	316	24	0.04	1304	2.18
218	7	0.01	132	0.22	268	8	0.01	426	0.71	317	24	0.04	1328	2.22
219	6	0.01	138	0.23	269	8	0.01	434	0.73	318	30	0.05	1358	2.27
220	4	0.01	142	0.24	270	10	0.02	444	0.74	319	31	0.05	1389	2.32
221	4	0.01	146	0.24	271	10	0.02	454	0.76	320	32	0.05	1421	2.38
222	2	0.00	148	0.25	272	13	0.02	467	0.78	321	33	0.06	1454	2.43
223	3	0.01	151	0.25	273	15	0.03	482	0.81	322	39	0.07	1493	2.50
224	3	0.01	154	0.26	274	9	0.02	491	0.82	323	45	0.08	1538	2.57
225	2	0.00	156	0.26	275	16	0.03	507	0.85	324	34	0.06	1572	2.63
226	1	0.00	157	0.26	276	9	0.02	516	0.86	325	43	0.07	1615	2.70
227	2	0.00	159	0.27	277	13	0.02	529	0.88	326	28	0.05	1643	2.75
228	2	0.00	161	0.27	278	7	0.01	536	0.90	327	43	0.07	1686	2.82
229	6	0.01	167	0.28	279	11	0.02	547	0.91	328	32	0.05	1718	2.87
230	5	0.01	172	0.29	280	19	0.03	566	0.95	329	35	0.06	1753	2.93
231	4	0.01	176	0.29	281	15	0.03	581	0.97	330	35	0.06	1788	2.99
232	3	0.01	179	0.30	282	9	0.02	590	0.99	331	36	0.06	1824	3.05
233	4	0.01	183	0.31	283	15	0.03	605	1.01	332	33	0.06	1857	3.10
234	9	0.02	192	0.32	284	15	0.03	620	1.04	333	34	0.06	1891	3.16

**Table 168. Mathematics Grade 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. %
334	49	0.08	1940	3.24	383	90	0.15	5307	8.87	432	181	0.30	12668	21.18
335	33	0.06	1973	3.30	384	115	0.19	5422	9.06	433	215	0.36	12883	21.54
336	50	0.08	2023	3.38	385	119	0.20	5541	9.26	434	218	0.36	13101	21.90
337	45	0.08	2068	3.46	386	107	0.18	5648	9.44	435	215	0.36	13316	22.26
338	53	0.09	2121	3.55	387	107	0.18	5755	9.62	436	207	0.35	13523	22.61
339	43	0.07	2164	3.62	388	106	0.18	5861	9.80	437	212	0.35	13735	22.96
340	42	0.07	2206	3.69	389	111	0.19	5972	9.98	438	204	0.34	13939	23.30
341	54	0.09	2260	3.78	390	127	0.21	6099	10.20	439	220	0.37	14159	23.67
342	50	0.08	2310	3.86	391	122	0.20	6221	10.40	440	197	0.33	14356	24.00
343	54	0.09	2364	3.95	392	112	0.19	6333	10.59	441	214	0.36	14570	24.36
344	51	0.09	2415	4.04	393	114	0.19	6447	10.78	442	236	0.39	14806	24.75
345	68	0.11	2483	4.15	394	115	0.19	6562	10.97	443	229	0.38	15035	25.13
346	44	0.07	2527	4.22	395	117	0.20	6679	11.17	444	225	0.38	15260	25.51
347	48	0.08	2575	4.30	396	119	0.20	6798	11.36	445	210	0.35	15470	25.86
348	58	0.10	2633	4.40	397	122	0.20	6920	11.57	446	228	0.38	15698	26.24
349	61	0.10	2694	4.50	398	131	0.22	7051	11.79	447	224	0.37	15922	26.62
350	41	0.07	2735	4.57	399	116	0.19	7167	11.98	448	229	0.38	16151	27.00
351	63	0.11	2798	4.68	400	146	0.24	7313	12.23	449	229	0.38	16380	27.38
352	73	0.12	2871	4.80	401	118	0.20	7431	12.42	450	229	0.38	16609	27.77
353	68	0.11	2939	4.91	402	132	0.22	7563	12.64	451	251	0.42	16860	28.19
354	56	0.09	2995	5.01	403	134	0.22	7697	12.87	452	244	0.41	17104	28.59
355	65	0.11	3060	5.12	404	142	0.24	7839	13.10	453	266	0.44	17370	29.04
356	74	0.12	3134	5.24	405	160	0.27	7999	13.37	454	252	0.42	17622	29.46
357	85	0.14	3219	5.38	406	149	0.25	8148	13.62	455	239	0.40	17861	29.86
358	72	0.12	3291	5.50	407	134	0.22	8282	13.85	456	277	0.46	18138	30.32
359	61	0.10	3352	5.60	408	160	0.27	8442	14.11	457	267	0.45	18405	30.77
360	64	0.11	3416	5.71	409	165	0.28	8607	14.39	458	260	0.43	18665	31.20
361	57	0.10	3473	5.81	410	158	0.26	8765	14.65	459	269	0.45	18934	31.65
362	76	0.13	3549	5.93	411	178	0.30	8943	14.95	460	268	0.45	19202	32.10
363	67	0.11	3616	6.05	412	150	0.25	9093	15.20	461	289	0.48	19491	32.58
364	72	0.12	3688	6.17	413	183	0.31	9276	15.51	462	273	0.46	19764	33.04
365	72	0.12	3760	6.29	414	148	0.25	9424	15.75	463	300	0.50	20064	33.54
366	67	0.11	3827	6.40	415	160	0.27	9584	16.02	464	289	0.48	20353	34.02
367	79	0.13	3906	6.53	416	179	0.30	9763	16.32	465	261	0.44	20614	34.46
368	84	0.14	3990	6.67	417	170	0.28	9933	16.61	466	282	0.47	20896	34.93
369	71	0.12	4061	6.79	418	182	0.30	10115	16.91	467	289	0.48	21185	35.42
370	92	0.15	4153	6.94	419	161	0.27	10276	17.18	468	328	0.55	21513	35.96
371	85	0.14	4238	7.08	420	174	0.29	10450	17.47	469	294	0.49	21807	36.46
372	81	0.14	4319	7.22	421	178	0.30	10628	17.77	470	303	0.51	22110	36.96
373	90	0.15	4409	7.37	422	169	0.28	10797	18.05	471	302	0.50	22412	37.47
374	86	0.14	4495	7.51	423	183	0.31	10980	18.36	472	297	0.50	22709	37.96
375	78	0.13	4573	7.64	424	198	0.33	11178	18.69	473	285	0.48	22994	38.44
376	81	0.14	4654	7.78	425	173	0.29	11351	18.98	474	303	0.51	23297	38.95
377	75	0.13	4729	7.91	426	168	0.28	11519	19.26	475	315	0.53	23612	39.47
378	92	0.15	4821	8.06	427	180	0.30	11699	19.56	476	300	0.50	23912	39.97
379	84	0.14	4905	8.20	428	197	0.33	11896	19.89	477	310	0.52	24222	40.49
380	99	0.17	5004	8.37	429	202	0.34	12098	20.22	478	315	0.53	24537	41.02
381	108	0.18	5112	8.55	430	196	0.33	12294	20.55	479	331	0.55	24868	41.57
382	105	0.18	5217	8.72	431	193	0.32	12487	20.87	480	292	0.49	25160	42.06

**Table 168. Mathematics Grade 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. %
481	296	0.49	25456	42.56	530	291	0.49	41158	68.81	579	138	0.23	52729	88.15
482	304	0.51	25760	43.06	531	299	0.50	41457	69.31	580	160	0.27	52889	88.42
483	314	0.52	26074	43.59	532	284	0.47	41741	69.78	581	163	0.27	53052	88.69
484	291	0.49	26365	44.08	533	310	0.52	42051	70.30	582	164	0.27	53216	88.96
485	335	0.56	26700	44.64	534	295	0.49	42346	70.79	583	152	0.25	53368	89.22
486	317	0.53	27017	45.17	535	308	0.51	42654	71.31	584	121	0.20	53489	89.42
487	301	0.50	27318	45.67	536	266	0.44	42920	71.75	585	154	0.26	53643	89.68
488	345	0.58	27663	46.25	537	286	0.48	43206	72.23	586	145	0.24	53788	89.92
489	352	0.59	28015	46.83	538	301	0.50	43507	72.73	587	133	0.22	53921	90.14
490	325	0.54	28340	47.38	539	278	0.46	43785	73.20	588	149	0.25	54070	90.39
491	340	0.57	28680	47.95	540	282	0.47	44067	73.67	589	137	0.23	54207	90.62
492	297	0.50	28977	48.44	541	292	0.49	44359	74.16	590	129	0.22	54336	90.84
493	316	0.53	29293	48.97	542	248	0.41	44607	74.57	591	124	0.21	54460	91.04
494	356	0.60	29649	49.57	543	281	0.47	44888	75.04	592	120	0.20	54580	91.24
495	288	0.48	29937	50.05	544	245	0.41	45133	75.45	593	124	0.21	54704	91.45
496	353	0.59	30290	50.64	545	269	0.45	45402	75.90	594	123	0.21	54827	91.66
497	344	0.58	30634	51.21	546	268	0.45	45670	76.35	595	116	0.19	54943	91.85
498	287	0.48	30921	51.69	547	247	0.41	45917	76.76	596	122	0.20	55065	92.05
499	312	0.52	31233	52.21	548	247	0.41	46164	77.17	597	110	0.18	55175	92.24
500	330	0.55	31563	52.77	549	256	0.43	46420	77.60	598	124	0.21	55299	92.45
501	366	0.61	31929	53.38	550	253	0.42	46673	78.03	599	113	0.19	55412	92.63
502	316	0.53	32245	53.91	551	241	0.40	46914	78.43	600	121	0.20	55533	92.84
503	298	0.50	32543	54.40	552	267	0.45	47181	78.87	601	106	0.18	55639	93.01
504	352	0.59	32895	54.99	553	276	0.46	47457	79.34	602	119	0.20	55758	93.21
505	334	0.56	33229	55.55	554	242	0.40	47699	79.74	603	102	0.17	55860	93.38
506	310	0.52	33539	56.07	555	223	0.37	47922	80.11	604	101	0.17	55961	93.55
507	337	0.56	33876	56.63	556	247	0.41	48169	80.53	605	97	0.16	56058	93.71
508	299	0.50	34175	57.13	557	214	0.36	48383	80.88	606	102	0.17	56160	93.88
509	319	0.53	34494	57.66	558	239	0.40	48622	81.28	607	86	0.14	56246	94.03
510	350	0.59	34844	58.25	559	232	0.39	48854	81.67	608	79	0.13	56325	94.16
511	336	0.56	35180	58.81	560	216	0.36	49070	82.03	609	92	0.15	56417	94.31
512	327	0.55	35507	59.36	561	229	0.38	49299	82.41	610	90	0.15	56507	94.46
513	313	0.52	35820	59.88	562	235	0.39	49534	82.81	611	75	0.13	56582	94.59
514	331	0.55	36151	60.43	563	230	0.38	49764	83.19	612	69	0.12	56651	94.71
515	306	0.51	36457	60.95	564	205	0.34	49969	83.54	613	72	0.12	56723	94.83
516	307	0.51	36764	61.46	565	211	0.35	50180	83.89	614	75	0.13	56798	94.95
517	320	0.53	37084	61.99	566	197	0.33	50377	84.22	615	62	0.10	56860	95.06
518	315	0.53	37399	62.52	567	190	0.32	50567	84.53	616	60	0.10	56920	95.16
519	347	0.58	37746	63.10	568	186	0.31	50753	84.85	617	70	0.12	56990	95.27
520	320	0.53	38066	63.64	569	184	0.31	50937	85.15	618	60	0.10	57050	95.37
521	309	0.52	38375	64.15	570	195	0.33	51132	85.48	619	64	0.11	57114	95.48
522	309	0.52	38684	64.67	571	202	0.34	51334	85.82	620	79	0.13	57193	95.61
523	325	0.54	39009	65.21	572	191	0.32	51525	86.14	621	67	0.11	57260	95.72
524	316	0.53	39325	65.74	573	202	0.34	51727	86.47	622	78	0.13	57338	95.85
525	313	0.52	39638	66.26	574	176	0.29	51903	86.77	623	54	0.09	57392	95.94
526	298	0.50	39936	66.76	575	187	0.31	52090	87.08	624	57	0.10	57449	96.04
527	338	0.57	40274	67.33	576	177	0.30	52267	87.38	625	64	0.11	57513	96.15
528	305	0.51	40579	67.84	577	156	0.26	52423	87.64	626	58	0.10	57571	96.24
529	288	0.48	40867	68.32	578	168	0.28	52591	87.92	627	53	0.09	57624	96.33

**Table 168. Mathematics Grade 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. %
628	44	0.07	57668	96.41	677	12	0.02	59117	98.83	733	1	0.00	59614	99.66
629	49	0.08	57717	96.49	678	18	0.03	59135	98.86	734	7	0.01	59621	99.67
630	54	0.09	57771	96.58	679	12	0.02	59147	98.88	736	5	0.01	59626	99.68
631	44	0.07	57815	96.65	680	2	0.00	59149	98.88	738	5	0.01	59631	99.69
632	52	0.09	57867	96.74	681	10	0.02	59159	98.90	741	1	0.00	59632	99.69
633	63	0.11	57930	96.84	682	17	0.03	59176	98.93	744	6	0.01	59638	99.70
634	57	0.10	57987	96.94	683	14	0.02	59190	98.95	747	8	0.01	59646	99.71
635	45	0.08	58032	97.01	684	26	0.04	59216	98.99	748	3	0.01	59649	99.72
636	43	0.07	58075	97.09	685	25	0.04	59241	99.04	757	2	0.00	59651	99.72
637	38	0.06	58113	97.15	686	31	0.05	59272	99.09	766	5	0.01	59656	99.73
638	38	0.06	58151	97.21	687	12	0.02	59284	99.11	771	3	0.01	59659	99.73
639	32	0.05	58183	97.27	688	5	0.01	59289	99.12	773	12	0.02	59671	99.75
640	43	0.07	58226	97.34	689	9	0.02	59298	99.13	777	11	0.02	59682	99.77
641	29	0.05	58255	97.39	690	9	0.02	59307	99.15	778	46	0.08	59728	99.85
642	44	0.07	58299	97.46	691	6	0.01	59313	99.16	780	90	0.15	59818	100.00
643	35	0.06	58334	97.52	692	9	0.02	59322	99.17					
644	32	0.05	58366	97.57	693	7	0.01	59329	99.18					
645	33	0.06	58399	97.63	694	16	0.03	59345	99.21					
646	40	0.07	58439	97.69	695	7	0.01	59352	99.22					
647	24	0.04	58463	97.73	696	2	0.00	59354	99.22					
648	33	0.06	58496	97.79	697	13	0.02	59367	99.25					
649	30	0.05	58526	97.84	698	2	0.00	59369	99.25					
650	32	0.05	58558	97.89	699	13	0.02	59382	99.27					
651	23	0.04	58581	97.93	700	5	0.01	59387	99.28					
652	31	0.05	58612	97.98	701	9	0.02	59396	99.29					
653	29	0.05	58641	98.03	703	4	0.01	59400	99.30					
654	25	0.04	58666	98.07	704	1	0.00	59401	99.30					
655	20	0.03	58686	98.11	705	6	0.01	59407	99.31					
656	19	0.03	58705	98.14	706	3	0.01	59410	99.32					
657	30	0.05	58735	98.19	707	1	0.00	59411	99.32					
658	26	0.04	58761	98.23	708	25	0.04	59436	99.36					
659	23	0.04	58784	98.27	709	5	0.01	59441	99.37					
660	27	0.05	58811	98.32	710	1	0.00	59442	99.37					
661	22	0.04	58833	98.35	711	11	0.02	59453	99.39					
662	13	0.02	58846	98.38	712	12	0.02	59465	99.41					
663	20	0.03	58866	98.41	713	3	0.01	59468	99.41					
664	10	0.02	58876	98.43	714	25	0.04	59493	99.46					
665	19	0.03	58895	98.46	718	9	0.02	59502	99.47					
666	30	0.05	58925	98.51	720	8	0.01	59510	99.49					
667	17	0.03	58942	98.54	721	17	0.03	59527	99.51					
668	13	0.02	58955	98.56	722	1	0.00	59528	99.52					
669	18	0.03	58973	98.59	723	2	0.00	59530	99.52					
670	25	0.04	58998	98.63	724	66	0.11	59596	99.63					
671	27	0.05	59025	98.67	727	2	0.00	59598	99.63					
672	6	0.01	59031	98.68	728	2	0.00	59600	99.64					
673	15	0.03	59046	98.71	729	1	0.00	59601	99.64					
674	25	0.04	59071	98.75	730	2	0.00	59603	99.64					
675	18	0.03	59089	98.78	731	5	0.01	59608	99.65					
676	16	0.03	59105	98.81	732	5	0.01	59613	99.66					

**Table 169. Reading Grade 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	281	0.48	281	0.48	369	5	0.01	417	0.71	418	15	0.03	814	1.39
233	1	0.00	282	0.48	370	5	0.01	422	0.72	419	11	0.02	825	1.40
298	1	0.00	283	0.48	371	4	0.01	426	0.72	420	6	0.01	831	1.41
309	2	0.00	285	0.49	372	6	0.01	432	0.74	421	6	0.01	837	1.42
317	2	0.00	287	0.49	373	10	0.02	442	0.75	422	14	0.02	851	1.45
318	1	0.00	288	0.49	374	6	0.01	448	0.76	423	16	0.03	867	1.48
319	2	0.00	290	0.49	375	3	0.01	451	0.77	424	18	0.03	885	1.51
320	1	0.00	291	0.50	376	5	0.01	456	0.78	425	12	0.02	897	1.53
324	1	0.00	292	0.50	377	4	0.01	460	0.78	426	14	0.02	911	1.55
325	2	0.00	294	0.50	378	1	0.00	461	0.78	427	20	0.03	931	1.58
326	1	0.00	295	0.50	379	7	0.01	468	0.80	428	8	0.01	939	1.60
327	2	0.00	297	0.51	380	3	0.01	471	0.80	429	18	0.03	957	1.63
328	2	0.00	299	0.51	381	11	0.02	482	0.82	430	15	0.03	972	1.65
330	1	0.00	300	0.51	382	5	0.01	487	0.83	431	21	0.04	993	1.69
331	1	0.00	301	0.51	383	2	0.00	489	0.83	432	13	0.02	1006	1.71
332	1	0.00	302	0.51	384	3	0.01	492	0.84	433	13	0.02	1019	1.73
333	3	0.01	305	0.52	385	11	0.02	503	0.86	434	13	0.02	1032	1.76
334	1	0.00	306	0.52	386	6	0.01	509	0.87	435	15	0.03	1047	1.78
337	2	0.00	308	0.52	387	3	0.01	512	0.87	436	23	0.04	1070	1.82
338	1	0.00	309	0.53	388	6	0.01	518	0.88	437	15	0.03	1085	1.85
340	4	0.01	313	0.53	389	3	0.01	521	0.89	438	17	0.03	1102	1.88
341	4	0.01	317	0.54	390	4	0.01	525	0.89	439	18	0.03	1120	1.91
342	3	0.01	320	0.54	391	12	0.02	537	0.91	440	20	0.03	1140	1.94
343	2	0.00	322	0.55	392	4	0.01	541	0.92	441	19	0.03	1159	1.97
344	9	0.02	331	0.56	393	7	0.01	548	0.93	442	16	0.03	1175	2.00
345	1	0.00	332	0.57	394	6	0.01	554	0.94	443	20	0.03	1195	2.03
346	1	0.00	333	0.57	395	12	0.02	566	0.96	444	19	0.03	1214	2.07
347	2	0.00	335	0.57	396	6	0.01	572	0.97	445	21	0.04	1235	2.10
348	2	0.00	337	0.57	397	14	0.02	586	1.00	446	28	0.05	1263	2.15
349	4	0.01	341	0.58	398	6	0.01	592	1.01	447	19	0.03	1282	2.18
350	3	0.01	344	0.59	399	9	0.02	601	1.02	448	29	0.05	1311	2.23
351	3	0.01	347	0.59	400	11	0.02	612	1.04	449	23	0.04	1334	2.27
352	6	0.01	353	0.60	401	7	0.01	619	1.05	450	28	0.05	1362	2.32
353	4	0.01	357	0.61	402	7	0.01	626	1.07	451	29	0.05	1391	2.37
354	4	0.01	361	0.61	403	10	0.02	636	1.08	452	25	0.04	1416	2.41
355	6	0.01	367	0.62	404	5	0.01	641	1.09	453	24	0.04	1440	2.45
356	3	0.01	370	0.63	405	15	0.03	656	1.12	454	28	0.05	1468	2.50
357	4	0.01	374	0.64	406	8	0.01	664	1.13	455	35	0.06	1503	2.56
358	5	0.01	379	0.64	407	10	0.02	674	1.15	456	24	0.04	1527	2.60
359	3	0.01	382	0.65	408	13	0.02	687	1.17	457	23	0.04	1550	2.64
360	7	0.01	389	0.66	409	11	0.02	698	1.19	458	30	0.05	1580	2.69
361	2	0.00	391	0.67	410	13	0.02	711	1.21	459	32	0.05	1612	2.74
362	2	0.00	393	0.67	411	14	0.02	725	1.23	460	34	0.06	1646	2.80
363	3	0.01	396	0.67	412	13	0.02	738	1.26	461	33	0.06	1679	2.86
364	3	0.01	399	0.68	413	8	0.01	746	1.27	462	30	0.05	1709	2.91
365	2	0.00	401	0.68	414	14	0.02	760	1.29	463	28	0.05	1737	2.96
366	6	0.01	407	0.69	415	17	0.03	777	1.32	464	27	0.05	1764	3.00
367	3	0.01	410	0.70	416	15	0.03	792	1.35	465	36	0.06	1800	3.06
368	2	0.00	412	0.70	417	7	0.01	799	1.36	466	29	0.05	1829	3.11



**Table 169. Reading Grade 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. %
467	43	0.07	1872	3.19	516	83	0.14	4731	8.05	565	208	0.35	12298	20.93
468	39	0.07	1911	3.25	517	105	0.18	4836	8.23	566	236	0.40	12534	21.33
469	57	0.10	1968	3.35	518	98	0.17	4934	8.40	567	230	0.39	12764	21.72
470	24	0.04	1992	3.39	519	91	0.15	5025	8.55	568	245	0.42	13009	22.14
471	31	0.05	2023	3.44	520	110	0.19	5135	8.74	569	232	0.39	13241	22.53
472	32	0.05	2055	3.50	521	96	0.16	5231	8.90	570	264	0.45	13505	22.98
473	32	0.05	2087	3.55	522	107	0.18	5338	9.08	571	235	0.40	13740	23.38
474	24	0.04	2111	3.59	523	110	0.19	5448	9.27	572	252	0.43	13992	23.81
475	38	0.06	2149	3.66	524	110	0.19	5558	9.46	573	289	0.49	14281	24.30
476	38	0.06	2187	3.72	525	97	0.17	5655	9.62	574	271	0.46	14552	24.76
477	45	0.08	2232	3.80	526	118	0.20	5773	9.82	575	251	0.43	14803	25.19
478	50	0.09	2282	3.88	527	117	0.20	5890	10.02	576	278	0.47	15081	25.66
479	39	0.07	2321	3.95	528	111	0.19	6001	10.21	577	258	0.44	15339	26.10
480	43	0.07	2364	4.02	529	93	0.16	6094	10.37	578	262	0.45	15601	26.55
481	43	0.07	2407	4.10	530	122	0.21	6216	10.58	579	287	0.49	15888	27.04
482	42	0.07	2449	4.17	531	116	0.20	6332	10.78	580	254	0.43	16142	27.47
483	43	0.07	2492	4.24	532	141	0.24	6473	11.02	581	277	0.47	16419	27.94
484	39	0.07	2531	4.31	533	131	0.22	6604	11.24	582	285	0.49	16704	28.43
485	49	0.08	2580	4.39	534	152	0.26	6756	11.50	583	278	0.47	16982	28.90
486	47	0.08	2627	4.47	535	138	0.23	6894	11.73	584	302	0.51	17284	29.41
487	58	0.10	2685	4.57	536	141	0.24	7035	11.97	585	339	0.58	17623	29.99
488	48	0.08	2733	4.65	537	132	0.22	7167	12.20	586	296	0.50	17919	30.49
489	48	0.08	2781	4.73	538	127	0.22	7294	12.41	587	339	0.58	18258	31.07
490	62	0.11	2843	4.84	539	122	0.21	7416	12.62	588	286	0.49	18544	31.56
491	57	0.10	2900	4.94	540	145	0.25	7561	12.87	589	301	0.51	18845	32.07
492	54	0.09	2954	5.03	541	153	0.26	7714	13.13	590	335	0.57	19180	32.64
493	51	0.09	3005	5.11	542	160	0.27	7874	13.40	591	333	0.57	19513	33.21
494	61	0.10	3066	5.22	543	135	0.23	8009	13.63	592	304	0.52	19817	33.72
495	63	0.11	3129	5.32	544	157	0.27	8166	13.90	593	319	0.54	20136	34.27
496	59	0.10	3188	5.43	545	177	0.30	8343	14.20	594	347	0.59	20483	34.86
497	76	0.13	3264	5.55	546	189	0.32	8532	14.52	595	355	0.60	20838	35.46
498	63	0.11	3327	5.66	547	154	0.26	8686	14.78	596	330	0.56	21168	36.02
499	58	0.10	3385	5.76	548	168	0.29	8854	15.07	597	347	0.59	21515	36.61
500	66	0.11	3451	5.87	549	181	0.31	9035	15.38	598	333	0.57	21848	37.18
501	67	0.11	3518	5.99	550	184	0.31	9219	15.69	599	370	0.63	22218	37.81
502	69	0.12	3587	6.10	551	194	0.33	9413	16.02	600	352	0.60	22570	38.41
503	74	0.13	3661	6.23	552	176	0.30	9589	16.32	601	328	0.56	22898	38.97
504	77	0.13	3738	6.36	553	178	0.30	9767	16.62	602	326	0.55	23224	39.52
505	87	0.15	3825	6.51	554	181	0.31	9948	16.93	603	360	0.61	23584	40.14
506	63	0.11	3888	6.62	555	209	0.36	10157	17.29	604	344	0.59	23928	40.72
507	86	0.15	3974	6.76	556	194	0.33	10351	17.62	605	359	0.61	24287	41.33
508	74	0.13	4048	6.89	557	217	0.37	10568	17.98	606	342	0.58	24629	41.91
509	81	0.14	4129	7.03	558	205	0.35	10773	18.33	607	371	0.63	25000	42.55
510	75	0.13	4204	7.15	559	221	0.38	10994	18.71	608	380	0.65	25380	43.19
511	89	0.15	4293	7.31	560	233	0.40	11227	19.11	609	352	0.60	25732	43.79
512	82	0.14	4375	7.45	561	217	0.37	11444	19.48	610	380	0.65	26112	44.44
513	88	0.15	4463	7.60	562	189	0.32	11633	19.80	611	397	0.68	26509	45.11
514	93	0.16	4556	7.75	563	223	0.38	11856	20.18	612	413	0.70	26922	45.82
515	92	0.16	4648	7.91	564	234	0.40	12090	20.57	613	433	0.74	27355	46.55

**Table 169. Reading Grade 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. %
614	389	0.66	27744	47.21	663	299	0.51	46366	78.91	712	106	0.18	56707	96.50
615	413	0.70	28157	47.92	664	341	0.58	46707	79.49	713	89	0.15	56796	96.66
616	381	0.65	28538	48.57	665	315	0.54	47022	80.02	714	91	0.15	56887	96.81
617	408	0.69	28946	49.26	666	335	0.57	47357	80.59	715	78	0.13	56965	96.94
618	403	0.69	29349	49.95	667	295	0.50	47652	81.09	716	76	0.13	57041	97.07
619	365	0.62	29714	50.57	668	294	0.50	47946	81.59	717	68	0.12	57109	97.19
620	401	0.68	30115	51.25	669	327	0.56	48273	82.15	718	69	0.12	57178	97.31
621	377	0.64	30492	51.89	670	314	0.53	48587	82.69	719	82	0.14	57260	97.45
622	421	0.72	30913	52.61	671	317	0.54	48904	83.23	720	73	0.12	57333	97.57
623	360	0.61	31273	53.22	672	262	0.45	49166	83.67	721	59	0.10	57392	97.67
624	413	0.70	31686	53.92	673	283	0.48	49449	84.15	722	68	0.12	57460	97.79
625	387	0.66	32073	54.58	674	288	0.49	49737	84.64	723	80	0.14	57540	97.92
626	362	0.62	32435	55.20	675	267	0.45	50004	85.10	724	56	0.10	57596	98.02
627	375	0.64	32810	55.84	676	240	0.41	50244	85.51	725	61	0.10	57657	98.12
628	389	0.66	33199	56.50	677	297	0.51	50541	86.01	726	63	0.11	57720	98.23
629	390	0.66	33589	57.16	678	263	0.45	50804	86.46	727	57	0.10	57777	98.33
630	383	0.65	33972	57.81	679	249	0.42	51053	86.88	728	50	0.09	57827	98.41
631	386	0.66	34358	58.47	680	264	0.45	51317	87.33	729	56	0.10	57883	98.51
632	402	0.68	34760	59.15	681	238	0.41	51555	87.74	730	47	0.08	57930	98.59
633	391	0.67	35151	59.82	682	229	0.39	51784	88.13	731	39	0.07	57969	98.65
634	381	0.65	35532	60.47	683	232	0.39	52016	88.52	732	33	0.06	58002	98.71
635	415	0.71	35947	61.17	684	228	0.39	52244	88.91	733	36	0.06	58038	98.77
636	395	0.67	36342	61.85	685	222	0.38	52466	89.29	734	33	0.06	58071	98.83
637	380	0.65	36722	62.49	686	218	0.37	52684	89.66	735	25	0.04	58096	98.87
638	374	0.64	37096	63.13	687	190	0.32	52874	89.98	736	25	0.04	58121	98.91
639	445	0.76	37541	63.89	688	201	0.34	53075	90.32	737	37	0.06	58158	98.97
640	407	0.69	37948	64.58	689	200	0.34	53275	90.66	738	24	0.04	58182	99.01
641	376	0.64	38324	65.22	690	214	0.36	53489	91.03	739	27	0.05	58209	99.06
642	412	0.70	38736	65.92	691	195	0.33	53684	91.36	740	25	0.04	58234	99.10
643	369	0.63	39105	66.55	692	185	0.31	53869	91.67	741	30	0.05	58264	99.15
644	380	0.65	39485	67.20	693	190	0.32	54059	92.00	742	22	0.04	58286	99.19
645	435	0.74	39920	67.94	694	159	0.27	54218	92.27	743	16	0.03	58302	99.22
646	368	0.63	40288	68.56	695	158	0.27	54376	92.54	744	15	0.03	58317	99.24
647	411	0.70	40699	69.26	696	188	0.32	54564	92.86	745	21	0.04	58338	99.28
648	367	0.62	41066	69.89	697	178	0.30	54742	93.16	746	23	0.04	58361	99.32
649	366	0.62	41432	70.51	698	160	0.27	54902	93.43	747	16	0.03	58377	99.35
650	401	0.68	41833	71.19	699	166	0.28	55068	93.72	748	14	0.02	58391	99.37
651	358	0.61	42191	71.80	700	152	0.26	55220	93.97	749	13	0.02	58404	99.39
652	334	0.57	42525	72.37	701	147	0.25	55367	94.22	750	18	0.03	58422	99.42
653	384	0.65	42909	73.02	702	128	0.22	55495	94.44	751	25	0.04	58447	99.47
654	352	0.60	43261	73.62	703	151	0.26	55646	94.70	752	17	0.03	58464	99.49
655	373	0.63	43634	74.26	704	132	0.22	55778	94.92	753	13	0.02	58477	99.52
656	345	0.59	43979	74.84	705	115	0.20	55893	95.12	754	15	0.03	58492	99.54
657	356	0.61	44335	75.45	706	145	0.25	56038	95.37	755	15	0.03	58507	99.57
658	330	0.56	44665	76.01	707	124	0.21	56162	95.58	756	15	0.03	58522	99.59
659	345	0.59	45010	76.60	708	102	0.17	56264	95.75	757	15	0.03	58537	99.62
660	358	0.61	45368	77.21	709	108	0.18	56372	95.93	758	8	0.01	58545	99.63
661	375	0.64	45743	77.85	710	123	0.21	56495	96.14	759	11	0.02	58556	99.65
662	324	0.55	46067	78.40	711	106	0.18	56601	96.32	760	17	0.03	58573	99.68

**Table 169. Reading Grade 5 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
761	11	0.02	58584	99.70	818	1	0.00	58755	99.99
762	7	0.01	58591	99.71	820	1	0.00	58756	99.99
763	10	0.02	58601	99.73	822	1	0.00	58757	99.99
764	6	0.01	58607	99.74	824	1	0.00	58758	99.99
765	8	0.01	58615	99.75	839	1	0.00	58759	100.00
766	6	0.01	58621	99.76	845	1	0.00	58760	100.00
767	7	0.01	58628	99.77	853	1	0.00	58761	100.00
768	4	0.01	58632	99.78					
769	8	0.01	58640	99.79					
770	7	0.01	58647	99.81					
771	6	0.01	58653	99.82					
772	11	0.02	58664	99.83					
773	3	0.01	58667	99.84					
774	4	0.01	58671	99.85					
775	3	0.01	58674	99.85					
776	5	0.01	58679	99.86					
777	2	0.00	58681	99.86					
778	3	0.01	58684	99.87					
779	3	0.01	58687	99.87					
780	3	0.01	58690	99.88					
781	4	0.01	58694	99.89					
782	4	0.01	58698	99.89					
783	1	0.00	58699	99.89					
784	4	0.01	58703	99.90					
785	6	0.01	58709	99.91					
786	4	0.01	58713	99.92					
787	1	0.00	58714	99.92					
788	2	0.00	58716	99.92					
789	2	0.00	58718	99.93					
790	4	0.01	58722	99.93					
791	1	0.00	58723	99.94					
792	5	0.01	58728	99.94					
793	1	0.00	58729	99.95					
794	2	0.00	58731	99.95					
795	1	0.00	58732	99.95					
797	1	0.00	58733	99.95					
798	1	0.00	58734	99.95					
799	3	0.01	58737	99.96					
800	2	0.00	58739	99.96					
801	3	0.01	58742	99.97					
802	1	0.00	58743	99.97					
803	1	0.00	58744	99.97					
804	1	0.00	58745	99.97					
805	2	0.00	58747	99.98					
806	1	0.00	58748	99.98					
807	1	0.00	58749	99.98					
808	1	0.00	58750	99.98					
810	2	0.00	58752	99.98					
811	2	0.00	58754	99.99					

**Table 170. Writing Grade 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	21	0.04	21	0.04	319	4	0.01	104	0.18	368	14	0.02	467	0.79
223	1	0.00	22	0.04	320	2	0.00	106	0.18	369	18	0.03	485	0.83
225	2	0.00	24	0.04	321	3	0.01	109	0.19	370	11	0.02	496	0.84
226	1	0.00	25	0.04	322	2	0.00	111	0.19	371	20	0.03	516	0.88
228	1	0.00	26	0.04	323	6	0.01	117	0.20	372	20	0.03	536	0.91
232	1	0.00	27	0.05	324	2	0.00	119	0.20	373	37	0.06	573	0.97
236	1	0.00	28	0.05	325	3	0.01	122	0.21	374	23	0.04	596	1.01
249	1	0.00	29	0.05	326	2	0.00	124	0.21	375	34	0.06	630	1.07
251	1	0.00	30	0.05	327	1	0.00	125	0.21	376	21	0.04	651	1.11
259	1	0.00	31	0.05	328	1	0.00	126	0.21	377	18	0.03	669	1.14
260	1	0.00	32	0.05	329	7	0.01	133	0.23	378	27	0.05	696	1.18
262	2	0.00	34	0.06	330	3	0.01	136	0.23	379	22	0.04	718	1.22
263	2	0.00	36	0.06	331	3	0.01	139	0.24	380	29	0.05	747	1.27
264	1	0.00	37	0.06	332	4	0.01	143	0.24	381	33	0.06	780	1.33
265	1	0.00	38	0.06	333	3	0.01	146	0.25	382	32	0.05	812	1.38
266	1	0.00	39	0.07	334	2	0.00	148	0.25	383	28	0.05	840	1.43
268	2	0.00	41	0.07	335	2	0.00	150	0.26	384	30	0.05	870	1.48
272	1	0.00	42	0.07	336	7	0.01	157	0.27	385	31	0.05	901	1.53
274	1	0.00	43	0.07	337	7	0.01	164	0.28	386	35	0.06	936	1.59
278	1	0.00	44	0.07	338	4	0.01	168	0.29	387	38	0.06	974	1.66
279	3	0.01	47	0.08	339	8	0.01	176	0.30	388	36	0.06	1010	1.72
281	2	0.00	49	0.08	340	3	0.01	179	0.30	389	32	0.05	1042	1.77
282	2	0.00	51	0.09	341	5	0.01	184	0.31	390	40	0.07	1082	1.84
283	1	0.00	52	0.09	342	5	0.01	189	0.32	391	39	0.07	1121	1.91
285	1	0.00	53	0.09	343	8	0.01	197	0.34	392	48	0.08	1169	1.99
289	2	0.00	55	0.09	344	2	0.00	199	0.34	393	40	0.07	1209	2.06
290	1	0.00	56	0.10	345	8	0.01	207	0.35	394	43	0.07	1252	2.13
292	1	0.00	57	0.10	346	7	0.01	214	0.36	395	49	0.08	1301	2.21
293	6	0.01	63	0.11	347	6	0.01	220	0.37	396	55	0.09	1356	2.31
295	1	0.00	64	0.11	348	5	0.01	225	0.38	397	53	0.09	1409	2.40
296	1	0.00	65	0.11	349	9	0.02	234	0.40	398	45	0.08	1454	2.47
297	2	0.00	67	0.11	350	11	0.02	245	0.42	399	42	0.07	1496	2.54
300	2	0.00	69	0.12	351	12	0.02	257	0.44	400	47	0.08	1543	2.62
301	1	0.00	70	0.12	352	6	0.01	263	0.45	401	61	0.10	1604	2.73
302	1	0.00	71	0.12	353	12	0.02	275	0.47	402	48	0.08	1652	2.81
303	2	0.00	73	0.12	354	13	0.02	288	0.49	403	66	0.11	1718	2.92
304	1	0.00	74	0.13	355	13	0.02	301	0.51	404	67	0.11	1785	3.04
305	1	0.00	75	0.13	356	15	0.03	316	0.54	405	56	0.10	1841	3.13
306	1	0.00	76	0.13	357	4	0.01	320	0.54	406	73	0.12	1914	3.26
307	3	0.01	79	0.13	358	16	0.03	336	0.57	407	64	0.11	1978	3.36
308	3	0.01	82	0.14	359	9	0.02	345	0.59	408	93	0.16	2071	3.52
309	2	0.00	84	0.14	360	15	0.03	360	0.61	409	80	0.14	2151	3.66
310	3	0.01	87	0.15	361	16	0.03	376	0.64	410	76	0.13	2227	3.79
311	2	0.00	89	0.15	362	12	0.02	388	0.66	411	60	0.10	2287	3.89
312	3	0.01	92	0.16	363	13	0.02	401	0.68	412	83	0.14	2370	4.03
314	1	0.00	93	0.16	364	11	0.02	412	0.70	413	108	0.18	2478	4.22
315	2	0.00	95	0.16	365	12	0.02	424	0.72	414	95	0.16	2573	4.38
316	1	0.00	96	0.16	366	15	0.03	439	0.75	415	103	0.18	2676	4.55
318	4	0.01	100	0.17	367	14	0.02	453	0.77	416	91	0.15	2767	4.71

**Table 170. Writing Grade 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. %
417	103	0.18	2870	4.88	466	303	0.52	12619	21.47	515	469	0.80	32650	55.54
418	103	0.18	2973	5.06	467	325	0.55	12944	22.02	516	455	0.77	33105	56.32
419	100	0.17	3073	5.23	468	328	0.56	13272	22.58	517	438	0.75	33543	57.06
420	117	0.20	3190	5.43	469	336	0.57	13608	23.15	518	410	0.70	33953	57.76
421	103	0.18	3293	5.60	470	318	0.54	13926	23.69	519	463	0.79	34416	58.55
422	128	0.22	3421	5.82	471	345	0.59	14271	24.28	520	469	0.80	34885	59.34
423	108	0.18	3529	6.00	472	348	0.59	14619	24.87	521	426	0.72	35311	60.07
424	114	0.19	3643	6.20	473	349	0.59	14968	25.46	522	454	0.77	35765	60.84
425	121	0.21	3764	6.40	474	348	0.59	15316	26.05	523	412	0.70	36177	61.54
426	132	0.22	3896	6.63	475	350	0.60	15666	26.65	524	460	0.78	36637	62.32
427	154	0.26	4050	6.89	476	360	0.61	16026	27.26	525	465	0.79	37102	63.11
428	139	0.24	4189	7.13	477	383	0.65	16409	27.91	526	388	0.66	37490	63.77
429	142	0.24	4331	7.37	478	379	0.64	16788	28.56	527	434	0.74	37924	64.51
430	179	0.30	4510	7.67	479	381	0.65	17169	29.21	528	458	0.78	38382	65.29
431	159	0.27	4669	7.94	480	375	0.64	17544	29.84	529	428	0.73	38810	66.02
432	151	0.26	4820	8.20	481	383	0.65	17927	30.50	530	433	0.74	39243	66.76
433	166	0.28	4986	8.48	482	388	0.66	18315	31.16	531	434	0.74	39677	67.50
434	162	0.28	5148	8.76	483	369	0.63	18684	31.78	532	422	0.72	40099	68.21
435	153	0.26	5301	9.02	484	397	0.68	19081	32.46	533	420	0.71	40519	68.93
436	173	0.29	5474	9.31	485	398	0.68	19479	33.14	534	398	0.68	40917	69.60
437	171	0.29	5645	9.60	486	428	0.73	19907	33.86	535	402	0.68	41319	70.29
438	199	0.34	5844	9.94	487	442	0.75	20349	34.62	536	390	0.66	41709	70.95
439	188	0.32	6032	10.26	488	425	0.72	20774	35.34	537	387	0.66	42096	71.61
440	184	0.31	6216	10.57	489	401	0.68	21175	36.02	538	336	0.57	42432	72.18
441	214	0.36	6430	10.94	490	410	0.70	21585	36.72	539	406	0.69	42838	72.87
442	177	0.30	6607	11.24	491	408	0.69	21993	37.41	540	370	0.63	43208	73.50
443	192	0.33	6799	11.57	492	433	0.74	22426	38.15	541	404	0.69	43612	74.19
444	204	0.35	7003	11.91	493	444	0.76	22870	38.90	542	363	0.62	43975	74.81
445	215	0.37	7218	12.28	494	417	0.71	23287	39.61	543	397	0.68	44372	75.48
446	203	0.35	7421	12.62	495	420	0.71	23707	40.33	544	350	0.60	44722	76.08
447	213	0.36	7634	12.99	496	437	0.74	24144	41.07	545	319	0.54	45041	76.62
448	208	0.35	7842	13.34	497	410	0.70	24554	41.77	546	354	0.60	45395	77.22
449	209	0.36	8051	13.70	498	410	0.70	24964	42.47	547	382	0.65	45777	77.87
450	233	0.40	8284	14.09	499	406	0.69	25370	43.16	548	301	0.51	46078	78.38
451	217	0.37	8501	14.46	500	396	0.67	25766	43.83	549	329	0.56	46407	78.94
452	246	0.42	8747	14.88	501	447	0.76	26213	44.59	550	297	0.51	46704	79.45
453	263	0.45	9010	15.33	502	461	0.78	26674	45.38	551	284	0.48	46988	79.93
454	259	0.44	9269	15.77	503	405	0.69	27079	46.06	552	315	0.54	47303	80.47
455	284	0.48	9553	16.25	504	478	0.81	27557	46.88	553	287	0.49	47590	80.96
456	260	0.44	9813	16.69	505	466	0.79	28023	47.67	554	302	0.51	47892	81.47
457	279	0.47	10092	17.17	506	463	0.79	28486	48.46	555	278	0.47	48170	81.94
458	258	0.44	10350	17.61	507	415	0.71	28901	49.16	556	306	0.52	48476	82.46
459	274	0.47	10624	18.07	508	467	0.79	29368	49.96	557	287	0.49	48763	82.95
460	238	0.40	10862	18.48	509	461	0.78	29829	50.74	558	265	0.45	49028	83.40
461	300	0.51	11162	18.99	510	449	0.76	30278	51.51	559	322	0.55	49350	83.95
462	273	0.46	11435	19.45	511	478	0.81	30756	52.32	560	252	0.43	49602	84.38
463	292	0.50	11727	19.95	512	454	0.77	31210	53.09	561	280	0.48	49882	84.85
464	292	0.50	12019	20.45	513	504	0.86	31714	53.95	562	256	0.44	50138	85.29
465	297	0.51	12316	20.95	514	467	0.79	32181	54.74	563	230	0.39	50368	85.68

**Table 170. Writing Grade 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. %
564	238	0.40	50606	86.09	613	78	0.13	57161	97.24	662	11	0.02	58492	99.50
565	240	0.41	50846	86.49	614	43	0.07	57204	97.31	663	4	0.01	58496	99.51
566	226	0.38	51072	86.88	615	63	0.11	57267	97.42	664	22	0.04	58518	99.55
567	253	0.43	51325	87.31	616	46	0.08	57313	97.50	665	17	0.03	58535	99.57
568	224	0.38	51549	87.69	617	44	0.07	57357	97.57	666	1	0.00	58536	99.58
569	229	0.39	51778	88.08	618	41	0.07	57398	97.64	667	10	0.02	58546	99.59
570	216	0.37	51994	88.45	619	60	0.10	57458	97.74	668	3	0.01	58549	99.60
571	184	0.31	52178	88.76	620	36	0.06	57494	97.80	669	6	0.01	58555	99.61
572	192	0.33	52370	89.09	621	33	0.06	57527	97.86	670	5	0.01	58560	99.62
573	199	0.34	52569	89.43	622	55	0.09	57582	97.95	671	8	0.01	58568	99.63
574	201	0.34	52770	89.77	623	25	0.04	57607	98.00	672	1	0.00	58569	99.63
575	155	0.26	52925	90.03	624	45	0.08	57652	98.07	673	5	0.01	58574	99.64
576	169	0.29	53094	90.32	625	35	0.06	57687	98.13	674	10	0.02	58584	99.66
577	197	0.34	53291	90.65	626	37	0.06	57724	98.20	675	10	0.02	58594	99.68
578	171	0.29	53462	90.94	627	41	0.07	57765	98.26	676	1	0.00	58595	99.68
579	171	0.29	53633	91.24	628	27	0.05	57792	98.31	677	11	0.02	58606	99.70
580	153	0.26	53786	91.50	629	42	0.07	57834	98.38	678	5	0.01	58611	99.70
581	142	0.24	53928	91.74	630	27	0.05	57861	98.43	679	3	0.01	58614	99.71
582	145	0.25	54073	91.98	631	35	0.06	57896	98.49	680	1	0.00	58615	99.71
583	142	0.24	54215	92.23	632	38	0.06	57934	98.55	681	6	0.01	58621	99.72
584	148	0.25	54363	92.48	633	28	0.05	57962	98.60	682	9	0.02	58630	99.74
585	157	0.27	54520	92.74	634	25	0.04	57987	98.64	683	2	0.00	58632	99.74
586	121	0.21	54641	92.95	635	29	0.05	58016	98.69	685	10	0.02	58642	99.76
587	108	0.18	54749	93.13	636	34	0.06	58050	98.75	686	3	0.01	58645	99.76
588	140	0.24	54889	93.37	637	21	0.04	58071	98.79	687	4	0.01	58649	99.77
589	133	0.23	55022	93.60	638	19	0.03	58090	98.82	689	6	0.01	58655	99.78
590	119	0.20	55141	93.80	639	27	0.05	58117	98.86	690	20	0.03	58675	99.81
591	119	0.20	55260	94.00	640	39	0.07	58156	98.93	692	6	0.01	58681	99.82
592	131	0.22	55391	94.23	641	15	0.03	58171	98.96	693	5	0.01	58686	99.83
593	115	0.20	55506	94.42	642	25	0.04	58196	99.00	695	2	0.00	58688	99.83
594	109	0.19	55615	94.61	643	34	0.06	58230	99.06	696	7	0.01	58695	99.85
595	119	0.20	55734	94.81	644	10	0.02	58240	99.07	697	14	0.02	58709	99.87
596	104	0.18	55838	94.99	645	16	0.03	58256	99.10	698	3	0.01	58712	99.88
597	101	0.17	55939	95.16	646	17	0.03	58273	99.13	700	1	0.00	58713	99.88
598	87	0.15	56026	95.31	647	18	0.03	58291	99.16	702	1	0.00	58714	99.88
599	82	0.14	56108	95.45	648	14	0.02	58305	99.18	704	3	0.01	58717	99.88
600	83	0.14	56191	95.59	649	26	0.04	58331	99.23	705	1	0.00	58718	99.89
601	78	0.13	56269	95.72	650	13	0.02	58344	99.25	708	5	0.01	58723	99.89
602	99	0.17	56368	95.89	651	15	0.03	58359	99.28	709	4	0.01	58727	99.90
603	77	0.13	56445	96.02	652	8	0.01	58367	99.29	711	1	0.00	58728	99.90
604	90	0.15	56535	96.17	653	9	0.02	58376	99.30	712	1	0.00	58729	99.90
605	85	0.14	56620	96.32	654	22	0.04	58398	99.34	715	1	0.00	58730	99.91
606	62	0.11	56682	96.42	655	8	0.01	58406	99.36	717	3	0.01	58733	99.91
607	62	0.11	56744	96.53	656	7	0.01	58413	99.37	723	1	0.00	58734	99.91
608	72	0.12	56816	96.65	657	6	0.01	58419	99.38	725	1	0.00	58735	99.91
609	76	0.13	56892	96.78	658	11	0.02	58430	99.40	727	2	0.00	58737	99.92
610	64	0.11	56956	96.89	659	27	0.05	58457	99.44	728	5	0.01	58742	99.93
611	64	0.11	57020	97.00	660	7	0.01	58464	99.45	733	7	0.01	58749	99.94
612	63	0.11	57083	97.10	661	17	0.03	58481	99.48	734	6	0.01	58755	99.95

**Table 170. Writing Grade 5 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>
739	1	0.00	58756	99.95
741	1	0.00	58757	99.95
743	5	0.01	58762	99.96
746	5	0.01	58767	99.97
749	1	0.00	58768	99.97
751	1	0.00	58769	99.97
757	3	0.01	58772	99.98
780	13	0.02	58785	100.00

**Table 171. Mathematics Grade 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	98	0.17	98	0.17	271	5	0.01	232	0.39	320	20	0.03	732	1.24
222	1	0.00	99	0.17	272	7	0.01	239	0.41	321	12	0.02	744	1.26
223	2	0.00	101	0.17	273	3	0.01	242	0.41	322	19	0.03	763	1.30
224	2	0.00	103	0.18	274	3	0.01	245	0.42	323	23	0.04	786	1.34
225	1	0.00	104	0.18	275	12	0.02	257	0.44	324	18	0.03	804	1.37
226	2	0.00	106	0.18	276	5	0.01	262	0.45	325	21	0.04	825	1.40
227	1	0.00	107	0.18	277	7	0.01	269	0.46	326	29	0.05	854	1.45
228	1	0.00	108	0.18	278	6	0.01	275	0.47	327	16	0.03	870	1.48
229	2	0.00	110	0.19	279	4	0.01	279	0.47	328	23	0.04	893	1.52
230	1	0.00	111	0.19	280	5	0.01	284	0.48	329	22	0.04	915	1.56
231	2	0.00	113	0.19	281	6	0.01	290	0.49	330	29	0.05	944	1.60
232	1	0.00	114	0.19	282	8	0.01	298	0.51	331	26	0.04	970	1.65
233	2	0.00	116	0.20	283	10	0.02	308	0.52	332	23	0.04	993	1.69
234	1	0.00	117	0.20	284	7	0.01	315	0.54	333	15	0.03	1008	1.71
235	3	0.01	120	0.20	285	7	0.01	322	0.55	334	26	0.04	1034	1.76
236	2	0.00	122	0.21	286	10	0.02	332	0.56	335	30	0.05	1064	1.81
237	3	0.01	125	0.21	287	5	0.01	337	0.57	336	21	0.04	1085	1.84
239	5	0.01	130	0.22	288	9	0.02	346	0.59	337	32	0.05	1117	1.90
240	2	0.00	132	0.22	289	7	0.01	353	0.60	338	22	0.04	1139	1.94
241	4	0.01	136	0.23	290	8	0.01	361	0.61	339	22	0.04	1161	1.97
242	2	0.00	138	0.23	291	14	0.02	375	0.64	340	26	0.04	1187	2.02
243	4	0.01	142	0.24	292	7	0.01	382	0.65	341	24	0.04	1211	2.06
244	3	0.01	145	0.25	293	2	0.00	384	0.65	342	29	0.05	1240	2.11
245	1	0.00	146	0.25	294	14	0.02	398	0.68	343	32	0.05	1272	2.16
246	1	0.00	147	0.25	295	12	0.02	410	0.70	344	30	0.05	1302	2.21
247	1	0.00	148	0.25	296	3	0.01	413	0.70	345	29	0.05	1331	2.26
248	2	0.00	150	0.25	297	9	0.02	422	0.72	346	30	0.05	1361	2.31
249	2	0.00	152	0.26	298	9	0.02	431	0.73	347	34	0.06	1395	2.37
250	3	0.01	155	0.26	299	6	0.01	437	0.74	348	33	0.06	1428	2.43
251	2	0.00	157	0.27	300	6	0.01	443	0.75	349	43	0.07	1471	2.50
252	3	0.01	160	0.27	301	13	0.02	456	0.77	350	27	0.05	1498	2.55
253	5	0.01	165	0.28	302	11	0.02	467	0.79	351	35	0.06	1533	2.61
254	4	0.01	169	0.29	303	15	0.03	482	0.82	352	35	0.06	1568	2.66
255	2	0.00	171	0.29	304	18	0.03	500	0.85	353	33	0.06	1601	2.72
256	1	0.00	172	0.29	305	10	0.02	510	0.87	354	41	0.07	1642	2.79
257	8	0.01	180	0.31	306	7	0.01	517	0.88	355	33	0.06	1675	2.85
258	1	0.00	181	0.31	307	14	0.02	531	0.90	356	38	0.06	1713	2.91
259	5	0.01	186	0.32	308	14	0.02	545	0.93	357	28	0.05	1741	2.96
260	7	0.01	193	0.33	309	13	0.02	558	0.95	358	36	0.06	1777	3.02
261	4	0.01	197	0.33	310	19	0.03	577	0.98	359	56	0.10	1833	3.12
262	5	0.01	202	0.34	311	10	0.02	587	1.00	360	37	0.06	1870	3.18
263	4	0.01	206	0.35	312	17	0.03	604	1.03	361	41	0.07	1911	3.25
264	3	0.01	209	0.36	313	21	0.04	625	1.06	362	40	0.07	1951	3.32
265	4	0.01	213	0.36	314	6	0.01	631	1.07	363	57	0.10	2008	3.41
266	2	0.00	215	0.37	315	9	0.02	640	1.09	364	56	0.10	2064	3.51
267	3	0.01	218	0.37	316	16	0.03	656	1.11	365	48	0.08	2112	3.59
268	2	0.00	220	0.37	317	21	0.04	677	1.15	366	37	0.06	2149	3.65
269	6	0.01	226	0.38	318	19	0.03	696	1.18	367	45	0.08	2194	3.73
270	1	0.00	227	0.39	319	16	0.03	712	1.21	368	63	0.11	2257	3.84



**Table 171. Mathematics Grade 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. %
369	48	0.08	2305	3.92	418	112	0.19	6320	10.74	467	225	0.38	14992	25.48
370	55	0.09	2360	4.01	419	108	0.18	6428	10.92	468	239	0.41	15231	25.89
371	43	0.07	2403	4.08	420	127	0.22	6555	11.14	469	218	0.37	15449	26.26
372	48	0.08	2451	4.17	421	121	0.21	6676	11.35	470	246	0.42	15695	26.67
373	67	0.11	2518	4.28	422	156	0.27	6832	11.61	471	205	0.35	15900	27.02
374	59	0.10	2577	4.38	423	141	0.24	6973	11.85	472	243	0.41	16143	27.44
375	72	0.12	2649	4.50	424	116	0.20	7089	12.05	473	244	0.41	16387	27.85
376	66	0.11	2715	4.61	425	125	0.21	7214	12.26	474	209	0.36	16596	28.21
377	52	0.09	2767	4.70	426	137	0.23	7351	12.49	475	243	0.41	16839	28.62
378	59	0.10	2826	4.80	427	138	0.23	7489	12.73	476	229	0.39	17068	29.01
379	62	0.11	2888	4.91	428	135	0.23	7624	12.96	477	270	0.46	17338	29.47
380	60	0.10	2948	5.01	429	158	0.27	7782	13.23	478	254	0.43	17592	29.90
381	45	0.08	2993	5.09	430	142	0.24	7924	13.47	479	240	0.41	17832	30.31
382	59	0.10	3052	5.19	431	143	0.24	8067	13.71	480	237	0.40	18069	30.71
383	64	0.11	3116	5.30	432	149	0.25	8216	13.96	481	267	0.45	18336	31.16
384	59	0.10	3175	5.40	433	151	0.26	8367	14.22	482	262	0.45	18598	31.61
385	67	0.11	3242	5.51	434	157	0.27	8524	14.49	483	253	0.43	18851	32.04
386	62	0.11	3304	5.62	435	165	0.28	8689	14.77	484	249	0.42	19100	32.46
387	73	0.12	3377	5.74	436	179	0.30	8868	15.07	485	229	0.39	19329	32.85
388	77	0.13	3454	5.87	437	178	0.30	9046	15.37	486	275	0.47	19604	33.32
389	65	0.11	3519	5.98	438	146	0.25	9192	15.62	487	269	0.46	19873	33.78
390	81	0.14	3600	6.12	439	165	0.28	9357	15.90	488	289	0.49	20162	34.27
391	78	0.13	3678	6.25	440	158	0.27	9515	16.17	489	259	0.44	20421	34.71
392	78	0.13	3756	6.38	441	160	0.27	9675	16.44	490	287	0.49	20708	35.19
393	91	0.15	3847	6.54	442	170	0.29	9845	16.73	491	271	0.46	20979	35.65
394	99	0.17	3946	6.71	443	170	0.29	10015	17.02	492	292	0.50	21271	36.15
395	100	0.17	4046	6.88	444	178	0.30	10193	17.32	493	270	0.46	21541	36.61
396	76	0.13	4122	7.01	445	181	0.31	10374	17.63	494	311	0.53	21852	37.14
397	95	0.16	4217	7.17	446	191	0.32	10565	17.96	495	240	0.41	22092	37.55
398	75	0.13	4292	7.29	447	194	0.33	10759	18.29	496	299	0.51	22391	38.05
399	101	0.17	4393	7.47	448	207	0.35	10966	18.64	497	259	0.44	22650	38.49
400	92	0.16	4485	7.62	449	194	0.33	11160	18.97	498	264	0.45	22914	38.94
401	79	0.13	4564	7.76	450	182	0.31	11342	19.28	499	271	0.46	23185	39.40
402	92	0.16	4656	7.91	451	207	0.35	11549	19.63	500	291	0.49	23476	39.90
403	87	0.15	4743	8.06	452	215	0.37	11764	19.99	501	276	0.47	23752	40.37
404	99	0.17	4842	8.23	453	193	0.33	11957	20.32	502	293	0.50	24045	40.87
405	95	0.16	4937	8.39	454	216	0.37	12173	20.69	503	268	0.46	24313	41.32
406	85	0.14	5022	8.54	455	193	0.33	12366	21.02	504	301	0.51	24614	41.83
407	100	0.17	5122	8.71	456	192	0.33	12558	21.34	505	306	0.52	24920	42.35
408	106	0.18	5228	8.89	457	227	0.39	12785	21.73	506	295	0.50	25215	42.85
409	102	0.17	5330	9.06	458	221	0.38	13006	22.10	507	314	0.53	25529	43.39
410	108	0.18	5438	9.24	459	217	0.37	13223	22.47	508	313	0.53	25842	43.92
411	111	0.19	5549	9.43	460	220	0.37	13443	22.85	509	331	0.56	26173	44.48
412	120	0.20	5669	9.63	461	191	0.32	13634	23.17	510	334	0.57	26507	45.05
413	97	0.16	5766	9.80	462	195	0.33	13829	23.50	511	293	0.50	26800	45.55
414	99	0.17	5865	9.97	463	230	0.39	14059	23.89	512	294	0.50	27094	46.05
415	112	0.19	5977	10.16	464	243	0.41	14302	24.31	513	320	0.54	27414	46.59
416	112	0.19	6089	10.35	465	224	0.38	14526	24.69	514	286	0.49	27700	47.08
417	119	0.20	6208	10.55	466	241	0.41	14767	25.10	515	326	0.55	28026	47.63

**Table 171. Mathematics Grade 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. %
516	327	0.56	28353	48.19	565	255	0.43	43416	73.79	614	158	0.27	53645	91.17
517	308	0.52	28661	48.71	566	250	0.42	43666	74.21	615	143	0.24	53788	91.42
518	315	0.54	28976	49.25	567	261	0.44	43927	74.66	616	124	0.21	53912	91.63
519	302	0.51	29278	49.76	568	279	0.47	44206	75.13	617	146	0.25	54058	91.87
520	314	0.53	29592	50.29	569	245	0.42	44451	75.55	618	142	0.24	54200	92.12
521	306	0.52	29898	50.81	570	265	0.45	44716	76.00	619	150	0.25	54350	92.37
522	329	0.56	30227	51.37	571	264	0.45	44980	76.45	620	125	0.21	54475	92.58
523	305	0.52	30532	51.89	572	249	0.42	45229	76.87	621	120	0.20	54595	92.79
524	316	0.54	30848	52.43	573	277	0.47	45506	77.34	622	88	0.15	54683	92.94
525	320	0.54	31168	52.97	574	250	0.42	45756	77.76	623	127	0.22	54810	93.15
526	307	0.52	31475	53.49	575	237	0.40	45993	78.17	624	118	0.20	54928	93.35
527	306	0.52	31781	54.01	576	254	0.43	46247	78.60	625	119	0.20	55047	93.56
528	339	0.58	32120	54.59	577	258	0.44	46505	79.04	626	90	0.15	55137	93.71
529	325	0.55	32445	55.14	578	268	0.46	46773	79.49	627	112	0.19	55249	93.90
530	313	0.53	32758	55.67	579	217	0.37	46990	79.86	628	109	0.19	55358	94.08
531	309	0.53	33067	56.20	580	231	0.39	47221	80.25	629	105	0.18	55463	94.26
532	320	0.54	33387	56.74	581	241	0.41	47462	80.66	630	98	0.17	55561	94.43
533	317	0.54	33704	57.28	582	222	0.38	47684	81.04	631	113	0.19	55674	94.62
534	312	0.53	34016	57.81	583	221	0.38	47905	81.42	632	111	0.19	55785	94.81
535	315	0.54	34331	58.35	584	238	0.40	48143	81.82	633	106	0.18	55891	94.99
536	320	0.54	34651	58.89	585	220	0.37	48363	82.20	634	100	0.17	55991	95.16
537	312	0.53	34963	59.42	586	229	0.39	48592	82.58	635	74	0.13	56065	95.29
538	316	0.54	35279	59.96	587	229	0.39	48821	82.97	636	75	0.13	56140	95.41
539	307	0.52	35586	60.48	588	214	0.36	49035	83.34	637	74	0.13	56214	95.54
540	317	0.54	35903	61.02	589	189	0.32	49224	83.66	638	85	0.14	56299	95.68
541	342	0.58	36245	61.60	590	202	0.34	49426	84.00	639	92	0.16	56391	95.84
542	314	0.53	36559	62.13	591	208	0.35	49634	84.36	640	71	0.12	56462	95.96
543	318	0.54	36877	62.67	592	189	0.32	49823	84.68	641	76	0.13	56538	96.09
544	310	0.53	37187	63.20	593	190	0.32	50013	85.00	642	56	0.10	56594	96.18
545	290	0.49	37477	63.69	594	212	0.36	50225	85.36	643	77	0.13	56671	96.32
546	333	0.57	37810	64.26	595	179	0.30	50404	85.66	644	65	0.11	56736	96.43
547	329	0.56	38139	64.82	596	170	0.29	50574	85.95	645	67	0.11	56803	96.54
548	289	0.49	38428	65.31	597	212	0.36	50786	86.31	646	55	0.09	56858	96.63
549	305	0.52	38733	65.83	598	180	0.31	50966	86.62	647	60	0.10	56918	96.74
550	296	0.50	39029	66.33	599	190	0.32	51156	86.94	648	51	0.09	56969	96.82
551	290	0.49	39319	66.82	600	192	0.33	51348	87.27	649	59	0.10	57028	96.92
552	287	0.49	39606	67.31	601	169	0.29	51517	87.56	650	46	0.08	57074	97.00
553	304	0.52	39910	67.83	602	184	0.31	51701	87.87	651	66	0.11	57140	97.11
554	321	0.55	40231	68.37	603	190	0.32	51891	88.19	652	43	0.07	57183	97.19
555	298	0.51	40529	68.88	604	162	0.28	52053	88.47	653	40	0.07	57223	97.25
556	283	0.48	40812	69.36	605	182	0.31	52235	88.78	654	58	0.10	57281	97.35
557	325	0.55	41137	69.91	606	170	0.29	52405	89.07	655	48	0.08	57329	97.43
558	300	0.51	41437	70.42	607	155	0.26	52560	89.33	656	55	0.09	57384	97.53
559	290	0.49	41727	70.92	608	160	0.27	52720	89.60	657	57	0.10	57441	97.62
560	319	0.54	42046	71.46	609	152	0.26	52872	89.86	658	36	0.06	57477	97.69
561	256	0.44	42302	71.89	610	165	0.28	53037	90.14	659	47	0.08	57524	97.77
562	302	0.51	42604	72.41	611	141	0.24	53178	90.38	660	47	0.08	57571	97.84
563	291	0.49	42895	72.90	612	155	0.26	53333	90.64	661	39	0.07	57610	97.91
564	266	0.45	43161	73.35	613	154	0.26	53487	90.90	662	41	0.07	57651	97.98

**Table 171. Mathematics Grade 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. %
663	37	0.06	57688	98.04	712	3	0.01	58579	99.56	763	3	0.01	58762	99.87
664	33	0.06	57721	98.10	713	8	0.01	58587	99.57	764	2	0.00	58764	99.87
665	42	0.07	57763	98.17	714	4	0.01	58591	99.58	766	1	0.00	58765	99.87
666	34	0.06	57797	98.23	715	5	0.01	58596	99.59	767	6	0.01	58771	99.88
667	28	0.05	57825	98.28	716	7	0.01	58603	99.60	769	2	0.00	58773	99.89
668	31	0.05	57856	98.33	717	3	0.01	58606	99.60	772	5	0.01	58778	99.90
669	24	0.04	57880	98.37	718	7	0.01	58613	99.62	777	1	0.00	58779	99.90
670	25	0.04	57905	98.41	719	8	0.01	58621	99.63	778	2	0.00	58781	99.90
671	39	0.07	57944	98.48	720	6	0.01	58627	99.64	779	3	0.01	58784	99.91
672	28	0.05	57972	98.53	721	3	0.01	58630	99.64	791	1	0.00	58785	99.91
673	27	0.05	57999	98.57	722	7	0.01	58637	99.66	795	1	0.00	58786	99.91
674	22	0.04	58021	98.61	723	3	0.01	58640	99.66	800	53	0.09	58839	100.00
675	31	0.05	58052	98.66	724	4	0.01	58644	99.67					
676	29	0.05	58081	98.71	725	6	0.01	58650	99.68					
677	33	0.06	58114	98.77	726	3	0.01	58653	99.68					
678	20	0.03	58134	98.80	727	4	0.01	58657	99.69					
679	25	0.04	58159	98.84	728	2	0.00	58659	99.69					
680	19	0.03	58178	98.88	729	4	0.01	58663	99.70					
681	21	0.04	58199	98.91	730	4	0.01	58667	99.71					
682	16	0.03	58215	98.94	731	8	0.01	58675	99.72					
683	20	0.03	58235	98.97	732	5	0.01	58680	99.73					
684	21	0.04	58256	99.01	733	4	0.01	58684	99.74					
685	16	0.03	58272	99.04	734	5	0.01	58689	99.75					
686	22	0.04	58294	99.07	735	9	0.02	58698	99.76					
687	8	0.01	58302	99.09	736	4	0.01	58702	99.77					
688	17	0.03	58319	99.12	737	1	0.00	58703	99.77					
689	21	0.04	58340	99.15	738	1	0.00	58704	99.77					
690	14	0.02	58354	99.18	739	2	0.00	58706	99.77					
691	12	0.02	58366	99.20	740	5	0.01	58711	99.78					
692	9	0.02	58375	99.21	741	3	0.01	58714	99.79					
693	18	0.03	58393	99.24	742	2	0.00	58716	99.79					
694	18	0.03	58411	99.27	743	3	0.01	58719	99.80					
695	14	0.02	58425	99.30	745	4	0.01	58723	99.80					
696	10	0.02	58435	99.31	746	1	0.00	58724	99.80					
697	13	0.02	58448	99.34	747	1	0.00	58725	99.81					
698	13	0.02	58461	99.36	748	1	0.00	58726	99.81					
699	7	0.01	58468	99.37	749	6	0.01	58732	99.82					
700	11	0.02	58479	99.39	750	2	0.00	58734	99.82					
701	16	0.03	58495	99.42	751	1	0.00	58735	99.82					
702	8	0.01	58503	99.43	752	3	0.01	58738	99.83					
703	6	0.01	58509	99.44	753	1	0.00	58739	99.83					
704	10	0.02	58519	99.46	754	4	0.01	58743	99.84					
705	5	0.01	58524	99.46	755	1	0.00	58744	99.84					
706	8	0.01	58532	99.48	757	4	0.01	58748	99.85					
707	9	0.02	58541	99.49	758	2	0.00	58750	99.85					
708	12	0.02	58553	99.51	759	2	0.00	58752	99.85					
709	2	0.00	58555	99.52	760	3	0.01	58755	99.86					
710	10	0.02	58565	99.53	761	3	0.01	58758	99.86					
711	11	0.02	58576	99.55	762	1	0.00	58759	99.86					

**Table 172. Science Grade 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	359	0.61	359	0.61	349	26	0.04	1105	1.88	398	113	0.19	4281	7.28
301	6	0.01	365	0.62	350	37	0.06	1142	1.94	399	110	0.19	4391	7.47
302	7	0.01	372	0.63	351	38	0.06	1180	2.01	400	130	0.22	4521	7.69
303	4	0.01	376	0.64	352	41	0.07	1221	2.08	401	124	0.21	4645	7.90
304	8	0.01	384	0.65	353	35	0.06	1256	2.14	402	107	0.18	4752	8.08
305	3	0.01	387	0.66	354	28	0.05	1284	2.18	403	110	0.19	4862	8.27
306	8	0.01	395	0.67	355	33	0.06	1317	2.24	404	124	0.21	4986	8.48
307	13	0.02	408	0.69	356	37	0.06	1354	2.30	405	121	0.21	5107	8.68
308	9	0.02	417	0.71	357	42	0.07	1396	2.37	406	136	0.23	5243	8.91
309	13	0.02	430	0.73	358	48	0.08	1444	2.46	407	124	0.21	5367	9.13
310	13	0.02	443	0.75	359	31	0.05	1475	2.51	408	145	0.25	5512	9.37
311	10	0.02	453	0.77	360	53	0.09	1528	2.60	409	116	0.20	5628	9.57
312	9	0.02	462	0.79	361	38	0.06	1566	2.66	410	136	0.23	5764	9.80
313	11	0.02	473	0.80	362	50	0.09	1616	2.75	411	133	0.23	5897	10.03
314	7	0.01	480	0.82	363	39	0.07	1655	2.81	412	143	0.24	6040	10.27
315	7	0.01	487	0.83	364	41	0.07	1696	2.88	413	160	0.27	6200	10.54
316	11	0.02	498	0.85	365	48	0.08	1744	2.97	414	133	0.23	6333	10.77
317	9	0.02	507	0.86	366	62	0.11	1806	3.07	415	153	0.26	6486	11.03
318	8	0.01	515	0.88	367	53	0.09	1859	3.16	416	143	0.24	6629	11.27
319	8	0.01	523	0.89	368	48	0.08	1907	3.24	417	142	0.24	6771	11.51
320	16	0.03	539	0.92	369	66	0.11	1973	3.35	418	154	0.26	6925	11.77
321	12	0.02	551	0.94	370	56	0.10	2029	3.45	419	170	0.29	7095	12.06
322	14	0.02	565	0.96	371	59	0.10	2088	3.55	420	174	0.30	7269	12.36
323	12	0.02	577	0.98	372	58	0.10	2146	3.65	421	147	0.25	7416	12.61
324	11	0.02	588	1.00	373	47	0.08	2193	3.73	422	182	0.31	7598	12.92
325	14	0.02	602	1.02	374	62	0.11	2255	3.83	423	181	0.31	7779	13.23
326	16	0.03	618	1.05	375	72	0.12	2327	3.96	424	169	0.29	7948	13.51
327	13	0.02	631	1.07	376	71	0.12	2398	4.08	425	181	0.31	8129	13.82
328	14	0.02	645	1.10	377	74	0.13	2472	4.20	426	181	0.31	8310	14.13
329	13	0.02	658	1.12	378	57	0.10	2529	4.30	427	185	0.31	8495	14.44
330	17	0.03	675	1.15	379	74	0.13	2603	4.43	428	198	0.34	8693	14.78
331	20	0.03	695	1.18	380	68	0.12	2671	4.54	429	202	0.34	8895	15.12
332	21	0.04	716	1.22	381	62	0.11	2733	4.65	430	182	0.31	9077	15.43
333	12	0.02	728	1.24	382	73	0.12	2806	4.77	431	186	0.32	9263	15.75
334	19	0.03	747	1.27	383	73	0.12	2879	4.90	432	208	0.35	9471	16.10
335	21	0.04	768	1.31	384	80	0.14	2959	5.03	433	217	0.37	9688	16.47
336	21	0.04	789	1.34	385	82	0.14	3041	5.17	434	210	0.36	9898	16.83
337	13	0.02	802	1.36	386	85	0.14	3126	5.32	435	219	0.37	10117	17.20
338	22	0.04	824	1.40	387	96	0.16	3222	5.48	436	237	0.40	10354	17.61
339	24	0.04	848	1.44	388	92	0.16	3314	5.63	437	224	0.38	10578	17.99
340	20	0.03	868	1.48	389	79	0.13	3393	5.77	438	240	0.41	10818	18.39
341	21	0.04	889	1.51	390	74	0.13	3467	5.90	439	222	0.38	11040	18.77
342	20	0.03	909	1.55	391	98	0.17	3565	6.06	440	243	0.41	11283	19.18
343	33	0.06	942	1.60	392	86	0.15	3651	6.21	441	252	0.43	11535	19.61
344	34	0.06	976	1.66	393	83	0.14	3734	6.35	442	241	0.41	11776	20.02
345	26	0.04	1002	1.70	394	114	0.19	3848	6.54	443	271	0.46	12047	20.48
346	23	0.04	1025	1.74	395	114	0.19	3962	6.74	444	240	0.41	12287	20.89
347	25	0.04	1050	1.79	396	84	0.14	4046	6.88	445	223	0.38	12510	21.27
348	29	0.05	1079	1.83	397	122	0.21	4168	7.09	446	234	0.40	12744	21.67

**Table 172. Science Grade 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. %
447	238	0.40	12982	22.07	496	351	0.60	28397	48.28	545	347	0.59	45424	77.24
448	248	0.42	13230	22.50	497	368	0.63	28765	48.91	546	314	0.53	45738	77.77
449	244	0.41	13474	22.91	498	357	0.61	29122	49.52	547	279	0.47	46017	78.24
450	282	0.48	13756	23.39	499	354	0.60	29476	50.12	548	271	0.46	46288	78.71
451	252	0.43	14008	23.82	500	386	0.66	29862	50.78	549	260	0.44	46548	79.15
452	255	0.43	14263	24.25	501	359	0.61	30221	51.39	550	271	0.46	46819	79.61
453	273	0.46	14536	24.72	502	335	0.57	30556	51.96	551	292	0.50	47111	80.10
454	271	0.46	14807	25.18	503	346	0.59	30902	52.54	552	286	0.49	47397	80.59
455	280	0.48	15087	25.65	504	402	0.68	31304	53.23	553	278	0.47	47675	81.06
456	277	0.47	15364	26.12	505	352	0.60	31656	53.83	554	257	0.44	47932	81.50
457	279	0.47	15643	26.60	506	383	0.65	32039	54.48	555	252	0.43	48184	81.93
458	264	0.45	15907	27.05	507	360	0.61	32399	55.09	556	274	0.47	48458	82.39
459	296	0.50	16203	27.55	508	364	0.62	32763	55.71	557	254	0.43	48712	82.83
460	273	0.46	16476	28.01	509	362	0.62	33125	56.32	558	224	0.38	48936	83.21
461	308	0.52	16784	28.54	510	342	0.58	33467	56.91	559	231	0.39	49167	83.60
462	280	0.48	17064	29.01	511	357	0.61	33824	57.51	560	263	0.45	49430	84.05
463	294	0.50	17358	29.51	512	353	0.60	34177	58.11	561	215	0.37	49645	84.41
464	305	0.52	17663	30.03	513	372	0.63	34549	58.74	562	261	0.44	49906	84.86
465	308	0.52	17971	30.56	514	352	0.60	34901	59.34	563	243	0.41	50149	85.27
466	319	0.54	18290	31.10	515	369	0.63	35270	59.97	564	235	0.40	50384	85.67
467	331	0.56	18621	31.66	516	363	0.62	35633	60.59	565	221	0.38	50605	86.05
468	305	0.52	18926	32.18	517	380	0.65	36013	61.23	566	235	0.40	50840	86.44
469	307	0.52	19233	32.70	518	387	0.66	36400	61.89	567	232	0.39	51072	86.84
470	317	0.54	19550	33.24	519	333	0.57	36733	62.46	568	210	0.36	51282	87.20
471	301	0.51	19851	33.75	520	342	0.58	37075	63.04	569	195	0.33	51477	87.53
472	320	0.54	20171	34.30	521	357	0.61	37432	63.65	570	201	0.34	51678	87.87
473	303	0.52	20474	34.81	522	343	0.58	37775	64.23	571	221	0.38	51899	88.25
474	306	0.52	20780	35.33	523	361	0.61	38136	64.84	572	193	0.33	52092	88.57
475	327	0.56	21107	35.89	524	408	0.69	38544	65.54	573	200	0.34	52292	88.91
476	337	0.57	21444	36.46	525	349	0.59	38893	66.13	574	204	0.35	52496	89.26
477	328	0.56	21772	37.02	526	348	0.59	39241	66.72	575	215	0.37	52711	89.63
478	329	0.56	22101	37.58	527	336	0.57	39577	67.29	576	200	0.34	52911	89.97
479	365	0.62	22466	38.20	528	338	0.57	39915	67.87	577	181	0.31	53092	90.27
480	351	0.60	22817	38.80	529	332	0.56	40247	68.43	578	186	0.32	53278	90.59
481	346	0.59	23163	39.38	530	322	0.55	40569	68.98	579	153	0.26	53431	90.85
482	339	0.58	23502	39.96	531	322	0.55	40891	69.53	580	171	0.29	53602	91.14
483	361	0.61	23863	40.58	532	374	0.64	41265	70.16	581	188	0.32	53790	91.46
484	330	0.56	24193	41.14	533	343	0.58	41608	70.75	582	156	0.27	53946	91.73
485	385	0.65	24578	41.79	534	322	0.55	41930	71.29	583	150	0.26	54096	91.98
486	364	0.62	24942	42.41	535	327	0.56	42257	71.85	584	167	0.28	54263	92.27
487	362	0.62	25304	43.03	536	332	0.56	42589	72.42	585	152	0.26	54415	92.52
488	353	0.60	25657	43.63	537	325	0.55	42914	72.97	586	138	0.23	54553	92.76
489	302	0.51	25959	44.14	538	284	0.48	43198	73.45	587	149	0.25	54702	93.01
490	353	0.60	26312	44.74	539	289	0.49	43487	73.94	588	133	0.23	54835	93.24
491	349	0.59	26661	45.33	540	305	0.52	43792	74.46	589	133	0.23	54968	93.46
492	325	0.55	26986	45.89	541	321	0.55	44113	75.01	590	144	0.24	55112	93.71
493	364	0.62	27350	46.50	542	336	0.57	44449	75.58	591	122	0.21	55234	93.92
494	345	0.59	27695	47.09	543	297	0.50	44746	76.08	592	128	0.22	55362	94.13
495	351	0.60	28046	47.69	544	331	0.56	45077	76.65	593	97	0.16	55459	94.30

**Table 172. Science Grade 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. %
594	118	0.20	55577	94.50	643	16	0.03	58441	99.37	694	1	0.00	58783	99.95
595	100	0.17	55677	94.67	644	14	0.02	58455	99.39	695	2	0.00	58785	99.95
596	108	0.18	55785	94.85	645	13	0.02	58468	99.42	696	1	0.00	58786	99.96
597	118	0.20	55903	95.05	646	15	0.03	58483	99.44	697	1	0.00	58787	99.96
598	115	0.20	56018	95.25	647	17	0.03	58500	99.47	699	1	0.00	58788	99.96
599	104	0.18	56122	95.43	648	17	0.03	58517	99.50	700	2	0.00	58790	99.96
600	94	0.16	56216	95.59	649	23	0.04	58540	99.54	702	1	0.00	58791	99.96
601	101	0.17	56317	95.76	650	17	0.03	58557	99.57	705	2	0.00	58793	99.97
602	121	0.21	56438	95.96	651	14	0.02	58571	99.59	706	1	0.00	58794	99.97
603	94	0.16	56532	96.12	652	5	0.01	58576	99.60	709	1	0.00	58795	99.97
604	89	0.15	56621	96.27	653	12	0.02	58588	99.62	711	1	0.00	58796	99.97
605	81	0.14	56702	96.41	654	11	0.02	58599	99.64	713	1	0.00	58797	99.97
606	86	0.15	56788	96.56	655	16	0.03	58615	99.67	716	1	0.00	58798	99.98
607	81	0.14	56869	96.70	656	7	0.01	58622	99.68	721	1	0.00	58799	99.98
608	87	0.15	56956	96.84	657	12	0.02	58634	99.70	722	1	0.00	58800	99.98
609	85	0.14	57041	96.99	658	5	0.01	58639	99.71	723	1	0.00	58801	99.98
610	77	0.13	57118	97.12	659	15	0.03	58654	99.73	726	1	0.00	58802	99.98
611	72	0.12	57190	97.24	660	13	0.02	58667	99.75	727	1	0.00	58803	99.98
612	61	0.10	57251	97.35	661	4	0.01	58671	99.76	729	2	0.00	58805	99.99
613	64	0.11	57315	97.45	662	4	0.01	58675	99.77	730	2	0.00	58807	99.99
614	64	0.11	57379	97.56	663	6	0.01	58681	99.78	734	1	0.00	58808	99.99
615	61	0.10	57440	97.67	664	8	0.01	58689	99.79	737	1	0.00	58809	99.99
616	75	0.13	57515	97.79	665	6	0.01	58695	99.80	744	1	0.00	58810	100.00
617	47	0.08	57562	97.87	666	4	0.01	58699	99.81	766	2	0.00	58812	100.00
618	55	0.09	57617	97.97	667	8	0.01	58707	99.82					
619	51	0.09	57668	98.05	668	5	0.01	58712	99.83					
620	46	0.08	57714	98.13	669	4	0.01	58716	99.84					
621	38	0.06	57752	98.20	670	5	0.01	58721	99.85					
622	44	0.07	57796	98.27	671	2	0.00	58723	99.85					
623	37	0.06	57833	98.34	672	3	0.01	58726	99.85					
624	45	0.08	57878	98.41	673	4	0.01	58730	99.86					
625	38	0.06	57916	98.48	674	3	0.01	58733	99.87					
626	54	0.09	57970	98.57	675	9	0.02	58742	99.88					
627	40	0.07	58010	98.64	677	4	0.01	58746	99.89					
628	38	0.06	58048	98.70	678	6	0.01	58752	99.90					
629	48	0.08	58096	98.78	679	4	0.01	58756	99.90					
630	32	0.05	58128	98.84	680	2	0.00	58758	99.91					
631	36	0.06	58164	98.90	681	2	0.00	58760	99.91					
632	31	0.05	58195	98.95	682	3	0.01	58763	99.92					
633	22	0.04	58217	98.99	683	2	0.00	58765	99.92					
634	22	0.04	58239	99.03	684	1	0.00	58766	99.92					
635	27	0.05	58266	99.07	685	3	0.01	58769	99.93					
636	18	0.03	58284	99.10	686	4	0.01	58773	99.93					
637	28	0.05	58312	99.15	687	2	0.00	58775	99.94					
638	16	0.03	58328	99.18	688	2	0.00	58777	99.94					
639	33	0.06	58361	99.23	689	1	0.00	58778	99.94					
640	21	0.04	58382	99.27	690	2	0.00	58780	99.95					
641	26	0.04	58408	99.31	692	1	0.00	58781	99.95					
642	17	0.03	58425	99.34	693	1	0.00	58782	99.95					

**Table 173. Reading Grade 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	379	0.66	379	0.66	336	2	0.00	456	0.79	390	1	0.00	566	0.98
261	2	0.00	381	0.66	338	2	0.00	458	0.80	391	3	0.01	569	0.99
262	1	0.00	382	0.66	339	2	0.00	460	0.80	392	3	0.01	572	0.99
263	1	0.00	383	0.66	340	3	0.01	463	0.80	393	2	0.00	574	1.00
264	1	0.00	384	0.67	341	1	0.00	464	0.81	394	4	0.01	578	1.00
268	3	0.01	387	0.67	342	1	0.00	465	0.81	395	2	0.00	580	1.01
269	1	0.00	388	0.67	343	2	0.00	467	0.81	396	2	0.00	582	1.01
270	3	0.01	391	0.68	344	1	0.00	468	0.81	397	3	0.01	585	1.02
271	1	0.00	392	0.68	345	2	0.00	470	0.82	398	6	0.01	591	1.03
272	1	0.00	393	0.68	346	2	0.00	472	0.82	399	3	0.01	594	1.03
274	3	0.01	396	0.69	347	2	0.00	474	0.82	400	6	0.01	600	1.04
277	1	0.00	397	0.69	348	3	0.01	477	0.83	401	4	0.01	604	1.05
278	1	0.00	398	0.69	349	2	0.00	479	0.83	402	3	0.01	607	1.05
279	2	0.00	400	0.69	352	1	0.00	480	0.83	403	2	0.00	609	1.06
280	1	0.00	401	0.70	353	2	0.00	482	0.84	404	6	0.01	615	1.07
283	1	0.00	402	0.70	354	2	0.00	484	0.84	405	3	0.01	618	1.07
284	1	0.00	403	0.70	355	1	0.00	485	0.84	406	5	0.01	623	1.08
285	1	0.00	404	0.70	356	3	0.01	488	0.85	407	2	0.00	625	1.09
287	1	0.00	405	0.70	357	3	0.01	491	0.85	409	5	0.01	630	1.09
288	1	0.00	406	0.70	358	1	0.00	492	0.85	410	2	0.00	632	1.10
289	3	0.01	409	0.71	359	2	0.00	494	0.86	411	3	0.01	635	1.10
290	1	0.00	410	0.71	360	1	0.00	495	0.86	412	4	0.01	639	1.11
292	1	0.00	411	0.71	361	2	0.00	497	0.86	413	3	0.01	642	1.11
293	1	0.00	412	0.72	362	3	0.01	500	0.87	414	6	0.01	648	1.12
294	1	0.00	413	0.72	363	2	0.00	502	0.87	415	6	0.01	654	1.14
295	4	0.01	417	0.72	364	1	0.00	503	0.87	416	4	0.01	658	1.14
296	2	0.00	419	0.73	365	1	0.00	504	0.87	417	5	0.01	663	1.15
299	2	0.00	421	0.73	366	1	0.00	505	0.88	418	3	0.01	666	1.16
300	1	0.00	422	0.73	367	2	0.00	507	0.88	419	8	0.01	674	1.17
301	1	0.00	423	0.73	368	3	0.01	510	0.89	420	5	0.01	679	1.18
304	1	0.00	424	0.74	369	5	0.01	515	0.89	421	5	0.01	684	1.19
309	1	0.00	425	0.74	370	2	0.00	517	0.90	422	7	0.01	691	1.20
310	2	0.00	427	0.74	371	3	0.01	520	0.90	423	3	0.01	694	1.20
312	1	0.00	428	0.74	372	3	0.01	523	0.91	424	8	0.01	702	1.22
315	1	0.00	429	0.74	374	2	0.00	525	0.91	425	5	0.01	707	1.23
316	1	0.00	430	0.75	375	5	0.01	530	0.92	426	8	0.01	715	1.24
317	1	0.00	431	0.75	376	1	0.00	531	0.92	427	4	0.01	719	1.25
318	3	0.01	434	0.75	377	2	0.00	533	0.93	428	5	0.01	724	1.26
319	2	0.00	436	0.76	378	3	0.01	536	0.93	429	6	0.01	730	1.27
320	2	0.00	438	0.76	379	3	0.01	539	0.94	430	9	0.02	739	1.28
321	4	0.01	442	0.77	380	2	0.00	541	0.94	431	8	0.01	747	1.30
322	1	0.00	443	0.77	381	4	0.01	545	0.95	432	14	0.02	761	1.32
323	2	0.00	445	0.77	382	4	0.01	549	0.95	433	7	0.01	768	1.33
325	2	0.00	447	0.78	383	4	0.01	553	0.96	434	9	0.02	777	1.35
327	2	0.00	449	0.78	384	1	0.00	554	0.96	435	13	0.02	790	1.37
328	1	0.00	450	0.78	385	4	0.01	558	0.97	436	7	0.01	797	1.38
330	1	0.00	451	0.78	386	2	0.00	560	0.97	437	4	0.01	801	1.39
334	2	0.00	453	0.79	387	2	0.00	562	0.98	438	8	0.01	809	1.40
335	1	0.00	454	0.79	388	3	0.01	565	0.98	439	10	0.02	819	1.42

**Table 173. Reading Grade 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	18	0.03	837	1.45	489	26	0.05	1881	3.27	538	95	0.16	4951	8.60
441	12	0.02	849	1.47	490	28	0.05	1909	3.31	539	91	0.16	5042	8.75
442	11	0.02	860	1.49	491	36	0.06	1945	3.38	540	98	0.17	5140	8.92
443	11	0.02	871	1.51	492	41	0.07	1986	3.45	541	106	0.18	5246	9.11
444	15	0.03	886	1.54	493	36	0.06	2022	3.51	542	94	0.16	5340	9.27
445	16	0.03	902	1.57	494	40	0.07	2062	3.58	543	97	0.17	5437	9.44
446	8	0.01	910	1.58	495	46	0.08	2108	3.66	544	108	0.19	5545	9.63
447	12	0.02	922	1.60	496	32	0.06	2140	3.72	545	99	0.17	5644	9.80
448	17	0.03	939	1.63	497	45	0.08	2185	3.79	546	129	0.22	5773	10.02
449	8	0.01	947	1.64	498	40	0.07	2225	3.86	547	120	0.21	5893	10.23
450	15	0.03	962	1.67	499	46	0.08	2271	3.94	548	128	0.22	6021	10.45
451	18	0.03	980	1.70	500	40	0.07	2311	4.01	549	122	0.21	6143	10.66
452	12	0.02	992	1.72	501	51	0.09	2362	4.10	550	134	0.23	6277	10.90
453	15	0.03	1007	1.75	502	50	0.09	2412	4.19	551	143	0.25	6420	11.15
454	15	0.03	1022	1.77	503	53	0.09	2465	4.28	552	132	0.23	6552	11.37
455	11	0.02	1033	1.79	504	38	0.07	2503	4.35	553	134	0.23	6686	11.61
456	16	0.03	1049	1.82	505	44	0.08	2547	4.42	554	121	0.21	6807	11.82
457	22	0.04	1071	1.86	506	54	0.09	2601	4.52	555	141	0.24	6948	12.06
458	13	0.02	1084	1.88	507	47	0.08	2648	4.60	556	151	0.26	7099	12.32
459	14	0.02	1098	1.91	508	50	0.09	2698	4.68	557	151	0.26	7250	12.59
460	13	0.02	1111	1.93	509	52	0.09	2750	4.77	558	136	0.24	7386	12.82
461	22	0.04	1133	1.97	510	48	0.08	2798	4.86	559	153	0.27	7539	13.09
462	11	0.02	1144	1.99	511	57	0.10	2855	4.96	560	141	0.24	7680	13.33
463	23	0.04	1167	2.03	512	51	0.09	2906	5.05	561	138	0.24	7818	13.57
464	22	0.04	1189	2.06	513	67	0.12	2973	5.16	562	173	0.30	7991	13.87
465	25	0.04	1214	2.11	514	69	0.12	3042	5.28	563	166	0.29	8157	14.16
466	15	0.03	1229	2.13	515	52	0.09	3094	5.37	564	175	0.30	8332	14.47
467	20	0.03	1249	2.17	516	51	0.09	3145	5.46	565	176	0.31	8508	14.77
468	30	0.05	1279	2.22	517	58	0.10	3203	5.56	566	134	0.23	8642	15.00
469	16	0.03	1295	2.25	518	68	0.12	3271	5.68	567	169	0.29	8811	15.30
470	21	0.04	1316	2.28	519	62	0.11	3333	5.79	568	172	0.30	8983	15.60
471	30	0.05	1346	2.34	520	69	0.12	3402	5.91	569	202	0.35	9185	15.95
472	25	0.04	1371	2.38	521	70	0.12	3472	6.03	570	172	0.30	9357	16.24
473	31	0.05	1402	2.43	522	75	0.13	3547	6.16	571	170	0.30	9527	16.54
474	23	0.04	1425	2.47	523	76	0.13	3623	6.29	572	195	0.34	9722	16.88
475	24	0.04	1449	2.52	524	81	0.14	3704	6.43	573	211	0.37	9933	17.24
476	27	0.05	1476	2.56	525	70	0.12	3774	6.55	574	198	0.34	10131	17.59
477	33	0.06	1509	2.62	526	64	0.11	3838	6.66	575	193	0.34	10324	17.92
478	25	0.04	1534	2.66	527	78	0.14	3916	6.80	576	188	0.33	10512	18.25
479	29	0.05	1563	2.71	528	89	0.15	4005	6.95	577	189	0.33	10701	18.58
480	30	0.05	1593	2.77	529	89	0.15	4094	7.11	578	221	0.38	10922	18.96
481	27	0.05	1620	2.81	530	99	0.17	4193	7.28	579	220	0.38	11142	19.34
482	28	0.05	1648	2.86	531	93	0.16	4286	7.44	580	201	0.35	11343	19.69
483	31	0.05	1679	2.91	532	91	0.16	4377	7.60	581	231	0.40	11574	20.09
484	32	0.06	1711	2.97	533	84	0.15	4461	7.74	582	215	0.37	11789	20.47
485	37	0.06	1748	3.03	534	103	0.18	4564	7.92	583	218	0.38	12007	20.85
486	34	0.06	1782	3.09	535	88	0.15	4652	8.08	584	261	0.45	12268	21.30
487	37	0.06	1819	3.16	536	106	0.18	4758	8.26	585	214	0.37	12482	21.67
488	36	0.06	1855	3.22	537	98	0.17	4856	8.43	586	231	0.40	12713	22.07



**Table 173. Reading Grade 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. %
587	258	0.45	12971	22.52	636	383	0.66	28679	49.79	685	333	0.58	47698	82.81
588	240	0.42	13211	22.94	637	373	0.65	29052	50.44	686	326	0.57	48024	83.37
589	253	0.44	13464	23.37	638	395	0.69	29447	51.12	687	285	0.49	48309	83.87
590	247	0.43	13711	23.80	639	368	0.64	29815	51.76	688	333	0.58	48642	84.45
591	233	0.40	13944	24.21	640	404	0.70	30219	52.46	689	317	0.55	48959	85.00
592	258	0.45	14202	24.66	641	355	0.62	30574	53.08	690	289	0.50	49248	85.50
593	278	0.48	14480	25.14	642	414	0.72	30988	53.80	691	271	0.47	49519	85.97
594	268	0.47	14748	25.60	643	388	0.67	31376	54.47	692	285	0.49	49804	86.46
595	235	0.41	14983	26.01	644	386	0.67	31762	55.14	693	307	0.53	50111	87.00
596	245	0.43	15228	26.44	645	417	0.72	32179	55.87	694	231	0.40	50342	87.40
597	295	0.51	15523	26.95	646	412	0.72	32591	56.58	695	256	0.44	50598	87.84
598	236	0.41	15759	27.36	647	418	0.73	33009	57.31	696	254	0.44	50852	88.28
599	293	0.51	16052	27.87	648	430	0.75	33439	58.05	697	287	0.50	51139	88.78
600	302	0.52	16354	28.39	649	392	0.68	33831	58.73	698	274	0.48	51413	89.26
601	277	0.48	16631	28.87	650	437	0.76	34268	59.49	699	248	0.43	51661	89.69
602	270	0.47	16901	29.34	651	408	0.71	34676	60.20	700	234	0.41	51895	90.09
603	279	0.48	17180	29.83	652	422	0.73	35098	60.93	701	223	0.39	52118	90.48
604	301	0.52	17481	30.35	653	391	0.68	35489	61.61	702	204	0.35	52322	90.84
605	297	0.52	17778	30.86	654	412	0.72	35901	62.33	703	220	0.38	52542	91.22
606	299	0.52	18077	31.38	655	399	0.69	36300	63.02	704	197	0.34	52739	91.56
607	300	0.52	18377	31.90	656	427	0.74	36727	63.76	705	210	0.36	52949	91.92
608	330	0.57	18707	32.48	657	383	0.66	37110	64.43	706	179	0.31	53128	92.23
609	304	0.53	19011	33.00	658	398	0.69	37508	65.12	707	195	0.34	53323	92.57
610	320	0.56	19331	33.56	659	424	0.74	37932	65.85	708	171	0.30	53494	92.87
611	323	0.56	19654	34.12	660	425	0.74	38357	66.59	709	196	0.34	53690	93.21
612	294	0.51	19948	34.63	661	391	0.68	38748	67.27	710	161	0.28	53851	93.49
613	353	0.61	20301	35.24	662	398	0.69	39146	67.96	711	194	0.34	54045	93.83
614	377	0.65	20678	35.90	663	375	0.65	39521	68.61	712	149	0.26	54194	94.09
615	331	0.57	21009	36.47	664	420	0.73	39941	69.34	713	160	0.28	54354	94.36
616	295	0.51	21304	36.99	665	434	0.75	40375	70.09	714	144	0.25	54498	94.61
617	358	0.62	21662	37.61	666	387	0.67	40762	70.77	715	142	0.25	54640	94.86
618	366	0.64	22028	38.24	667	374	0.65	41136	71.42	716	152	0.26	54792	95.12
619	353	0.61	22381	38.86	668	410	0.71	41546	72.13	717	128	0.22	54920	95.35
620	344	0.60	22725	39.45	669	421	0.73	41967	72.86	718	128	0.22	55048	95.57
621	323	0.56	23048	40.01	670	399	0.69	42366	73.55	719	169	0.29	55217	95.86
622	350	0.61	23398	40.62	671	381	0.66	42747	74.21	720	135	0.23	55352	96.10
623	378	0.66	23776	41.28	672	381	0.66	43128	74.87	721	124	0.22	55476	96.31
624	364	0.63	24140	41.91	673	384	0.67	43512	75.54	722	96	0.17	55572	96.48
625	373	0.65	24513	42.56	674	375	0.65	43887	76.19	723	85	0.15	55657	96.63
626	352	0.61	24865	43.17	675	381	0.66	44268	76.85	724	106	0.18	55763	96.81
627	341	0.59	25206	43.76	676	391	0.68	44659	77.53	725	87	0.15	55850	96.96
628	402	0.70	25608	44.46	677	333	0.58	44992	78.11	726	100	0.17	55950	97.13
629	435	0.76	26043	45.21	678	362	0.63	45354	78.74	727	93	0.16	56043	97.30
630	366	0.64	26409	45.85	679	353	0.61	45707	79.35	728	85	0.15	56128	97.44
631	353	0.61	26762	46.46	680	311	0.54	46018	79.89	729	83	0.14	56211	97.59
632	364	0.63	27126	47.09	681	308	0.53	46326	80.43	730	82	0.14	56293	97.73
633	362	0.63	27488	47.72	682	340	0.59	46666	81.02	731	85	0.15	56378	97.88
634	403	0.70	27891	48.42	683	352	0.61	47018	81.63	732	69	0.12	56447	98.00
635	405	0.70	28296	49.12	684	347	0.60	47365	82.23	733	78	0.14	56525	98.13

**Table 173. Reading Grade 6 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
734	63	0.11	56588	98.24	783	1	0.00	57556	99.92
735	57	0.10	56645	98.34	784	3	0.01	57559	99.93
736	50	0.09	56695	98.43	785	1	0.00	57560	99.93
737	50	0.09	56745	98.51	786	3	0.01	57563	99.93
738	57	0.10	56802	98.61	787	2	0.00	57565	99.94
739	43	0.07	56845	98.69	788	3	0.01	57568	99.94
740	38	0.07	56883	98.75	789	1	0.00	57569	99.94
741	51	0.09	56934	98.84	790	2	0.00	57571	99.95
742	42	0.07	56976	98.91	791	2	0.00	57573	99.95
743	31	0.05	57007	98.97	792	2	0.00	57575	99.95
744	30	0.05	57037	99.02	793	2	0.00	57577	99.96
745	42	0.07	57079	99.09	795	1	0.00	57578	99.96
746	34	0.06	57113	99.15	796	2	0.00	57580	99.96
747	27	0.05	57140	99.20	797	3	0.01	57583	99.97
748	36	0.06	57176	99.26	798	1	0.00	57584	99.97
749	25	0.04	57201	99.31	800	2	0.00	57586	99.97
750	25	0.04	57226	99.35	801	1	0.00	57587	99.98
751	30	0.05	57256	99.40	802	1	0.00	57588	99.98
752	26	0.05	57282	99.45	803	1	0.00	57589	99.98
753	19	0.03	57301	99.48	804	2	0.00	57591	99.98
754	19	0.03	57320	99.51	806	1	0.00	57592	99.98
755	21	0.04	57341	99.55	809	1	0.00	57593	99.99
756	17	0.03	57358	99.58	810	1	0.00	57594	99.99
757	10	0.02	57368	99.60	811	2	0.00	57596	99.99
758	18	0.03	57386	99.63	813	1	0.00	57597	99.99
759	9	0.02	57395	99.64	819	1	0.00	57598	99.99
760	14	0.02	57409	99.67	824	1	0.00	57599	100.00
761	11	0.02	57420	99.69	827	1	0.00	57600	100.00
762	11	0.02	57431	99.70	829	1	0.00	57601	100.00
763	10	0.02	57441	99.72					
764	16	0.03	57457	99.75					
765	9	0.02	57466	99.77					
766	12	0.02	57478	99.79					
767	12	0.02	57490	99.81					
768	6	0.01	57496	99.82					
769	6	0.01	57502	99.83					
770	3	0.01	57505	99.83					
771	2	0.00	57507	99.84					
772	10	0.02	57517	99.85					
773	9	0.02	57526	99.87					
774	6	0.01	57532	99.88					
775	2	0.00	57534	99.88					
776	3	0.01	57537	99.89					
777	3	0.01	57540	99.89					
778	3	0.01	57543	99.90					
779	3	0.01	57546	99.90					
780	5	0.01	57551	99.91					
781	2	0.00	57553	99.92					
782	2	0.00	57555	99.92					

**Table 174. Writing Grade 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	32	0.06	32	0.06	334	4	0.01	119	0.21	385	30	0.05	690	1.20
240	1	0.00	33	0.06	337	4	0.01	123	0.21	386	24	0.04	714	1.24
241	1	0.00	34	0.06	338	2	0.00	125	0.22	387	24	0.04	738	1.29
247	1	0.00	35	0.06	339	3	0.01	128	0.22	388	40	0.07	778	1.36
249	1	0.00	36	0.06	340	3	0.01	131	0.23	389	19	0.03	797	1.39
250	1	0.00	37	0.06	341	3	0.01	134	0.23	390	30	0.05	827	1.44
255	1	0.00	38	0.07	342	2	0.00	136	0.24	391	29	0.05	856	1.49
257	1	0.00	39	0.07	343	2	0.00	138	0.24	392	28	0.05	884	1.54
263	1	0.00	40	0.07	344	5	0.01	143	0.25	393	38	0.07	922	1.61
266	1	0.00	41	0.07	345	2	0.00	145	0.25	394	32	0.06	954	1.66
269	1	0.00	42	0.07	346	6	0.01	151	0.26	395	32	0.06	986	1.72
275	2	0.00	44	0.08	347	8	0.01	159	0.28	396	37	0.06	1023	1.78
277	1	0.00	45	0.08	348	6	0.01	165	0.29	397	37	0.06	1060	1.85
279	1	0.00	46	0.08	349	7	0.01	172	0.30	398	31	0.05	1091	1.90
280	1	0.00	47	0.08	350	9	0.02	181	0.32	399	33	0.06	1124	1.96
282	1	0.00	48	0.08	351	5	0.01	186	0.32	400	45	0.08	1169	2.04
283	2	0.00	50	0.09	352	6	0.01	192	0.33	401	51	0.09	1220	2.13
284	2	0.00	52	0.09	353	11	0.02	203	0.35	402	29	0.05	1249	2.18
287	1	0.00	53	0.09	354	11	0.02	214	0.37	403	40	0.07	1289	2.25
288	1	0.00	54	0.09	355	8	0.01	222	0.39	404	47	0.08	1336	2.33
290	1	0.00	55	0.10	356	9	0.02	231	0.40	405	41	0.07	1377	2.40
292	1	0.00	56	0.10	357	5	0.01	236	0.41	406	63	0.11	1440	2.51
295	1	0.00	57	0.10	358	7	0.01	243	0.42	407	48	0.08	1488	2.59
297	1	0.00	58	0.10	359	11	0.02	254	0.44	408	47	0.08	1535	2.68
298	1	0.00	59	0.10	360	7	0.01	261	0.45	409	41	0.07	1576	2.75
299	1	0.00	60	0.10	361	8	0.01	269	0.47	410	49	0.09	1625	2.83
300	1	0.00	61	0.11	362	5	0.01	274	0.48	411	59	0.10	1684	2.93
305	1	0.00	62	0.11	363	12	0.02	286	0.50	412	61	0.11	1745	3.04
307	3	0.01	65	0.11	364	9	0.02	295	0.51	413	70	0.12	1815	3.16
308	1	0.00	66	0.12	365	10	0.02	305	0.53	414	65	0.11	1880	3.28
310	2	0.00	68	0.12	366	16	0.03	321	0.56	415	49	0.09	1929	3.36
311	2	0.00	70	0.12	367	17	0.03	338	0.59	416	68	0.12	1997	3.48
312	1	0.00	71	0.12	368	10	0.02	348	0.61	417	69	0.12	2066	3.60
313	2	0.00	73	0.13	369	12	0.02	360	0.63	418	59	0.10	2125	3.70
314	2	0.00	75	0.13	370	13	0.02	373	0.65	419	56	0.10	2181	3.80
315	2	0.00	77	0.13	371	13	0.02	386	0.67	420	66	0.12	2247	3.92
316	2	0.00	79	0.14	372	15	0.03	401	0.70	421	77	0.13	2324	4.05
317	2	0.00	81	0.14	373	20	0.03	421	0.73	422	72	0.13	2396	4.18
320	3	0.01	84	0.15	374	15	0.03	436	0.76	423	70	0.12	2466	4.30
321	1	0.00	85	0.15	375	20	0.03	456	0.79	424	84	0.15	2550	4.44
322	1	0.00	86	0.15	376	17	0.03	473	0.82	425	82	0.14	2632	4.59
323	3	0.01	89	0.16	377	16	0.03	489	0.85	426	63	0.11	2695	4.70
324	1	0.00	90	0.16	378	18	0.03	507	0.88	427	98	0.17	2793	4.87
326	7	0.01	97	0.17	379	32	0.06	539	0.94	428	94	0.16	2887	5.03
327	5	0.01	102	0.18	380	31	0.05	570	0.99	429	112	0.20	2999	5.23
328	3	0.01	105	0.18	381	12	0.02	582	1.01	430	97	0.17	3096	5.40
331	4	0.01	109	0.19	382	29	0.05	611	1.06	431	87	0.15	3183	5.55
332	3	0.01	112	0.20	383	28	0.05	639	1.11	432	94	0.16	3277	5.71
333	3	0.01	115	0.20	384	21	0.04	660	1.15	433	79	0.14	3356	5.85

**Table 174. Writing Grade 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. %
434	97	0.17	3453	6.02	483	293	0.51	12427	21.66	532	375	0.65	30096	52.45
435	101	0.18	3554	6.19	484	266	0.46	12693	22.12	533	395	0.69	30491	53.14
436	110	0.19	3664	6.39	485	302	0.53	12995	22.65	534	412	0.72	30903	53.86
437	98	0.17	3762	6.56	486	260	0.45	13255	23.10	535	405	0.71	31308	54.56
438	103	0.18	3865	6.74	487	296	0.52	13551	23.62	536	371	0.65	31679	55.21
439	102	0.18	3967	6.91	488	297	0.52	13848	24.13	537	402	0.70	32081	55.91
440	110	0.19	4077	7.11	489	313	0.55	14161	24.68	538	406	0.71	32487	56.62
441	109	0.19	4186	7.30	490	334	0.58	14495	25.26	539	426	0.74	32913	57.36
442	102	0.18	4288	7.47	491	310	0.54	14805	25.80	540	396	0.69	33309	58.05
443	138	0.24	4426	7.71	492	322	0.56	15127	26.36	541	424	0.74	33733	58.79
444	139	0.24	4565	7.96	493	334	0.58	15461	26.95	542	403	0.70	34136	59.49
445	132	0.23	4697	8.19	494	314	0.55	15775	27.49	543	401	0.70	34537	60.19
446	121	0.21	4818	8.40	495	333	0.58	16108	28.07	544	362	0.63	34899	60.82
447	140	0.24	4958	8.64	496	354	0.62	16462	28.69	545	396	0.69	35295	61.51
448	124	0.22	5082	8.86	497	326	0.57	16788	29.26	546	382	0.67	35677	62.18
449	123	0.21	5205	9.07	498	352	0.61	17140	29.87	547	363	0.63	36040	62.81
450	159	0.28	5364	9.35	499	297	0.52	17437	30.39	548	388	0.68	36428	63.49
451	169	0.29	5533	9.64	500	328	0.57	17765	30.96	549	408	0.71	36836	64.20
452	146	0.25	5679	9.90	501	381	0.66	18146	31.62	550	386	0.67	37222	64.87
453	161	0.28	5840	10.18	502	350	0.61	18496	32.23	551	397	0.69	37619	65.56
454	196	0.34	6036	10.52	503	361	0.63	18857	32.86	552	361	0.63	37980	66.19
455	163	0.28	6199	10.80	504	352	0.61	19209	33.48	553	404	0.70	38384	66.90
456	155	0.27	6354	11.07	505	368	0.64	19577	34.12	554	386	0.67	38770	67.57
457	177	0.31	6531	11.38	506	374	0.65	19951	34.77	555	388	0.68	39158	68.24
458	200	0.35	6731	11.73	507	369	0.64	20320	35.41	556	352	0.61	39510	68.86
459	184	0.32	6915	12.05	508	361	0.63	20681	36.04	557	350	0.61	39860	69.47
460	202	0.35	7117	12.40	509	383	0.67	21064	36.71	558	369	0.64	40229	70.11
461	181	0.32	7298	12.72	510	349	0.61	21413	37.32	559	338	0.59	40567	70.70
462	169	0.29	7467	13.01	511	389	0.68	21802	38.00	560	335	0.58	40902	71.28
463	189	0.33	7656	13.34	512	379	0.66	22181	38.66	561	336	0.59	41238	71.87
464	192	0.33	7848	13.68	513	409	0.71	22590	39.37	562	363	0.63	41601	72.50
465	203	0.35	8051	14.03	514	348	0.61	22938	39.98	563	315	0.55	41916	73.05
466	200	0.35	8251	14.38	515	402	0.70	23340	40.68	564	328	0.57	42244	73.62
467	213	0.37	8464	14.75	516	413	0.72	23753	41.40	565	317	0.55	42561	74.18
468	204	0.36	8668	15.11	517	402	0.70	24155	42.10	566	303	0.53	42864	74.70
469	220	0.38	8888	15.49	518	377	0.66	24532	42.75	567	331	0.58	43195	75.28
470	228	0.40	9116	15.89	519	377	0.66	24909	43.41	568	316	0.55	43511	75.83
471	231	0.40	9347	16.29	520	386	0.67	25295	44.08	569	310	0.54	43821	76.37
472	233	0.41	9580	16.70	521	386	0.67	25681	44.76	570	324	0.56	44145	76.94
473	251	0.44	9831	17.13	522	432	0.75	26113	45.51	571	303	0.53	44448	77.46
474	236	0.41	10067	17.54	523	400	0.70	26513	46.21	572	324	0.56	44772	78.03
475	216	0.38	10283	17.92	524	378	0.66	26891	46.87	573	295	0.51	45067	78.54
476	243	0.42	10526	18.34	525	388	0.68	27279	47.54	574	277	0.48	45344	79.03
477	272	0.47	10798	18.82	526	406	0.71	27685	48.25	575	286	0.50	45630	79.52
478	255	0.44	11053	19.26	527	392	0.68	28077	48.93	576	273	0.48	45903	80.00
479	251	0.44	11304	19.70	528	402	0.70	28479	49.63	577	268	0.47	46171	80.47
480	253	0.44	11557	20.14	529	435	0.76	28914	50.39	578	294	0.51	46465	80.98
481	284	0.49	11841	20.64	530	399	0.70	29313	51.09	579	288	0.50	46753	81.48
482	293	0.51	12134	21.15	531	408	0.71	29721	51.80	580	291	0.51	47044	81.99

**Table 174. Writing Grade 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. %
581	268	0.47	47312	82.46	630	89	0.16	55332	96.43	679	18	0.03	57037	99.40
582	291	0.51	47603	82.96	631	68	0.12	55400	96.55	680	8	0.01	57045	99.42
583	255	0.44	47858	83.41	632	57	0.10	55457	96.65	681	7	0.01	57052	99.43
584	265	0.46	48123	83.87	633	67	0.12	55524	96.77	682	17	0.03	57069	99.46
585	250	0.44	48373	84.30	634	69	0.12	55593	96.89	683	9	0.02	57078	99.48
586	217	0.38	48590	84.68	635	66	0.12	55659	97.00	684	8	0.01	57086	99.49
587	257	0.45	48847	85.13	636	57	0.10	55716	97.10	685	19	0.03	57105	99.52
588	243	0.42	49090	85.55	637	63	0.11	55779	97.21	686	13	0.02	57118	99.55
589	228	0.40	49318	85.95	638	72	0.13	55851	97.34	687	9	0.02	57127	99.56
590	220	0.38	49538	86.33	639	40	0.07	55891	97.41	688	10	0.02	57137	99.58
591	228	0.40	49766	86.73	640	61	0.11	55952	97.51	689	5	0.01	57142	99.59
592	219	0.38	49985	87.11	641	73	0.13	56025	97.64	690	4	0.01	57146	99.59
593	230	0.40	50215	87.51	642	51	0.09	56076	97.73	691	6	0.01	57152	99.60
594	194	0.34	50409	87.85	643	41	0.07	56117	97.80	692	20	0.03	57172	99.64
595	213	0.37	50622	88.22	644	40	0.07	56157	97.87	694	3	0.01	57175	99.64
596	195	0.34	50817	88.56	645	35	0.06	56192	97.93	695	6	0.01	57181	99.65
597	190	0.33	51007	88.89	646	52	0.09	56244	98.02	696	3	0.01	57184	99.66
598	193	0.34	51200	89.23	647	46	0.08	56290	98.10	697	13	0.02	57197	99.68
599	204	0.36	51404	89.59	648	38	0.07	56328	98.17	698	1	0.00	57198	99.68
600	196	0.34	51600	89.93	649	29	0.05	56357	98.22	699	6	0.01	57204	99.70
601	177	0.31	51777	90.24	650	48	0.08	56405	98.30	701	4	0.01	57208	99.70
602	158	0.28	51935	90.51	651	28	0.05	56433	98.35	702	1	0.00	57209	99.70
603	163	0.28	52098	90.80	652	28	0.05	56461	98.40	703	28	0.05	57237	99.75
604	187	0.33	52285	91.12	653	30	0.05	56491	98.45	704	3	0.01	57240	99.76
605	155	0.27	52440	91.39	654	34	0.06	56525	98.51	705	3	0.01	57243	99.76
606	173	0.30	52613	91.69	655	17	0.03	56542	98.54	706	4	0.01	57247	99.77
607	166	0.29	52779	91.98	656	57	0.10	56599	98.64	707	7	0.01	57254	99.78
608	142	0.25	52921	92.23	657	23	0.04	56622	98.68	708	2	0.00	57256	99.79
609	144	0.25	53065	92.48	658	24	0.04	56646	98.72	709	8	0.01	57264	99.80
610	146	0.25	53211	92.74	659	32	0.06	56678	98.78	710	1	0.00	57265	99.80
611	156	0.27	53367	93.01	660	24	0.04	56702	98.82	711	2	0.00	57267	99.80
612	142	0.25	53509	93.26	661	21	0.04	56723	98.86	712	3	0.01	57270	99.81
613	131	0.23	53640	93.48	662	15	0.03	56738	98.88	713	2	0.00	57272	99.81
614	130	0.23	53770	93.71	663	25	0.04	56763	98.93	714	4	0.01	57276	99.82
615	118	0.21	53888	93.92	664	25	0.04	56788	98.97	715	4	0.01	57280	99.83
616	106	0.18	53994	94.10	665	15	0.03	56803	99.00	716	3	0.01	57283	99.83
617	136	0.24	54130	94.34	666	19	0.03	56822	99.03	717	1	0.00	57284	99.83
618	116	0.20	54246	94.54	667	18	0.03	56840	99.06	718	2	0.00	57286	99.84
619	93	0.16	54339	94.70	668	19	0.03	56859	99.09	719	1	0.00	57287	99.84
620	100	0.17	54439	94.88	669	20	0.03	56879	99.13	720	1	0.00	57288	99.84
621	97	0.17	54536	95.05	670	25	0.04	56904	99.17	721	5	0.01	57293	99.85
622	99	0.17	54635	95.22	671	21	0.04	56925	99.21	723	1	0.00	57294	99.85
623	101	0.18	54736	95.39	672	14	0.02	56939	99.23	724	1	0.00	57295	99.85
624	92	0.16	54828	95.55	673	20	0.03	56959	99.27	725	1	0.00	57296	99.86
625	84	0.15	54912	95.70	674	8	0.01	56967	99.28	727	1	0.00	57297	99.86
626	88	0.15	55000	95.85	675	8	0.01	56975	99.30	728	1	0.00	57298	99.86
627	93	0.16	55093	96.02	676	17	0.03	56992	99.33	729	3	0.01	57301	99.86
628	87	0.15	55180	96.17	677	18	0.03	57010	99.36	730	9	0.02	57310	99.88
629	63	0.11	55243	96.28	678	9	0.02	57019	99.37	731	2	0.00	57312	99.88

**Table 174. Writing Grade 6 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %
732	8	0.01	57320	99.90
734	3	0.01	57323	99.90
737	1	0.00	57324	99.90
738	7	0.01	57331	99.92
741	1	0.00	57332	99.92
742	1	0.00	57333	99.92
743	2	0.00	57335	99.92
746	2	0.00	57337	99.93
747	1	0.00	57338	99.93
748	4	0.01	57342	99.94
755	2	0.00	57344	99.94
756	1	0.00	57345	99.94
758	1	0.00	57346	99.94
762	1	0.00	57347	99.94
764	2	0.00	57349	99.95
773	2	0.00	57351	99.95
775	1	0.00	57352	99.95
784	6	0.01	57358	99.96
788	5	0.01	57363	99.97
792	2	0.00	57365	99.98
798	2	0.00	57367	99.98
825	5	0.01	57372	99.99
840	7	0.01	57379	100.00

**Table 175. Mathematics Grade 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	116	0.20	116	0.20	293	6	0.01	321	0.56	342	17	0.03	827	1.43
241	2	0.00	118	0.20	294	4	0.01	325	0.56	343	16	0.03	843	1.46
242	3	0.01	121	0.21	295	5	0.01	330	0.57	344	12	0.02	855	1.48
243	3	0.01	124	0.21	296	3	0.01	333	0.58	345	18	0.03	873	1.51
245	2	0.00	126	0.22	297	7	0.01	340	0.59	346	19	0.03	892	1.55
246	2	0.00	128	0.22	298	6	0.01	346	0.60	347	21	0.04	913	1.58
247	1	0.00	129	0.22	299	7	0.01	353	0.61	348	18	0.03	931	1.61
248	2	0.00	131	0.23	300	7	0.01	360	0.62	349	26	0.05	957	1.66
249	2	0.00	133	0.23	301	9	0.02	369	0.64	350	19	0.03	976	1.69
250	2	0.00	135	0.23	302	13	0.02	382	0.66	351	19	0.03	995	1.72
252	3	0.01	138	0.24	303	3	0.01	385	0.67	352	14	0.02	1009	1.75
253	3	0.01	141	0.24	304	14	0.02	399	0.69	353	16	0.03	1025	1.78
254	1	0.00	142	0.25	305	10	0.02	409	0.71	354	13	0.02	1038	1.80
255	2	0.00	144	0.25	306	15	0.03	424	0.74	355	20	0.03	1058	1.83
256	2	0.00	146	0.25	307	8	0.01	432	0.75	356	25	0.04	1083	1.88
257	8	0.01	154	0.27	308	9	0.02	441	0.76	357	24	0.04	1107	1.92
258	4	0.01	158	0.27	309	5	0.01	446	0.77	358	26	0.05	1133	1.96
259	4	0.01	162	0.28	310	5	0.01	451	0.78	359	29	0.05	1162	2.01
260	2	0.00	164	0.28	311	6	0.01	457	0.79	360	27	0.05	1189	2.06
262	6	0.01	170	0.29	312	11	0.02	468	0.81	361	26	0.05	1215	2.11
264	4	0.01	174	0.30	313	7	0.01	475	0.82	362	36	0.06	1251	2.17
265	2	0.00	176	0.31	314	13	0.02	488	0.85	363	32	0.06	1283	2.22
266	6	0.01	182	0.32	315	8	0.01	496	0.86	364	29	0.05	1312	2.27
267	5	0.01	187	0.32	316	11	0.02	507	0.88	365	28	0.05	1340	2.32
268	1	0.00	188	0.33	317	8	0.01	515	0.89	366	31	0.05	1371	2.38
269	4	0.01	192	0.33	318	11	0.02	526	0.91	367	30	0.05	1401	2.43
270	3	0.01	195	0.34	319	3	0.01	529	0.92	368	28	0.05	1429	2.48
271	5	0.01	200	0.35	320	7	0.01	536	0.93	369	20	0.03	1449	2.51
272	6	0.01	206	0.36	321	10	0.02	546	0.95	370	23	0.04	1472	2.55
273	3	0.01	209	0.36	322	11	0.02	557	0.97	371	30	0.05	1502	2.60
274	2	0.00	211	0.37	323	20	0.03	577	1.00	372	31	0.05	1533	2.66
275	3	0.01	214	0.37	324	6	0.01	583	1.01	373	21	0.04	1554	2.69
276	6	0.01	220	0.38	325	11	0.02	594	1.03	374	41	0.07	1595	2.77
277	5	0.01	225	0.39	326	17	0.03	611	1.06	375	26	0.05	1621	2.81
278	3	0.01	228	0.40	327	14	0.02	625	1.08	376	30	0.05	1651	2.86
279	6	0.01	234	0.41	328	17	0.03	642	1.11	377	28	0.05	1679	2.91
280	6	0.01	240	0.42	329	15	0.03	657	1.14	378	35	0.06	1714	2.97
281	7	0.01	247	0.43	330	7	0.01	664	1.15	379	37	0.06	1751	3.04
282	5	0.01	252	0.44	331	8	0.01	672	1.16	380	29	0.05	1780	3.09
283	5	0.01	257	0.45	332	15	0.03	687	1.19	381	29	0.05	1809	3.14
284	8	0.01	265	0.46	333	10	0.02	697	1.21	382	34	0.06	1843	3.20
285	5	0.01	270	0.47	334	12	0.02	709	1.23	383	45	0.08	1888	3.27
286	5	0.01	275	0.48	335	16	0.03	725	1.26	384	31	0.05	1919	3.33
287	4	0.01	279	0.48	336	12	0.02	737	1.28	385	48	0.08	1967	3.41
288	4	0.01	283	0.49	337	20	0.03	757	1.31	386	34	0.06	2001	3.47
289	9	0.02	292	0.51	338	11	0.02	768	1.33	387	42	0.07	2043	3.54
290	6	0.01	298	0.52	339	18	0.03	786	1.36	388	40	0.07	2083	3.61
291	13	0.02	311	0.54	340	13	0.02	799	1.39	389	44	0.08	2127	3.69
292	4	0.01	315	0.55	341	11	0.02	810	1.40	390	42	0.07	2169	3.76

**Table 175. Mathematics Grade 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. %
391	44	0.08	2213	3.84	440	102	0.18	5657	9.81	489	227	0.39	13533	23.46
392	55	0.10	2268	3.93	441	114	0.20	5771	10.00	490	233	0.40	13766	23.86
393	43	0.07	2311	4.01	442	117	0.20	5888	10.21	491	213	0.37	13979	24.23
394	45	0.08	2356	4.08	443	111	0.19	5999	10.40	492	220	0.38	14199	24.62
395	46	0.08	2402	4.16	444	104	0.18	6103	10.58	493	259	0.45	14458	25.06
396	46	0.08	2448	4.24	445	103	0.18	6206	10.76	494	251	0.44	14709	25.50
397	55	0.10	2503	4.34	446	104	0.18	6310	10.94	495	267	0.46	14976	25.96
398	44	0.08	2547	4.42	447	106	0.18	6416	11.12	496	244	0.42	15220	26.39
399	39	0.07	2586	4.48	448	103	0.18	6519	11.30	497	272	0.47	15492	26.86
400	49	0.08	2635	4.57	449	119	0.21	6638	11.51	498	264	0.46	15756	27.31
401	42	0.07	2677	4.64	450	106	0.18	6744	11.69	499	259	0.45	16015	27.76
402	64	0.11	2741	4.75	451	125	0.22	6869	11.91	500	235	0.41	16250	28.17
403	59	0.10	2800	4.85	452	134	0.23	7003	12.14	501	245	0.42	16495	28.60
404	56	0.10	2856	4.95	453	141	0.24	7144	12.38	502	267	0.46	16762	29.06
405	63	0.11	2919	5.06	454	120	0.21	7264	12.59	503	266	0.46	17028	29.52
406	57	0.10	2976	5.16	455	131	0.23	7395	12.82	504	260	0.45	17288	29.97
407	66	0.11	3042	5.27	456	124	0.21	7519	13.04	505	279	0.48	17567	30.45
408	71	0.12	3113	5.40	457	145	0.25	7664	13.29	506	297	0.51	17864	30.97
409	61	0.11	3174	5.50	458	127	0.22	7791	13.51	507	244	0.42	18108	31.39
410	70	0.12	3244	5.62	459	149	0.26	7940	13.76	508	276	0.48	18384	31.87
411	60	0.10	3304	5.73	460	140	0.24	8080	14.01	509	266	0.46	18650	32.33
412	63	0.11	3367	5.84	461	137	0.24	8217	14.25	510	267	0.46	18917	32.79
413	54	0.09	3421	5.93	462	163	0.28	8380	14.53	511	245	0.42	19162	33.22
414	53	0.09	3474	6.02	463	145	0.25	8525	14.78	512	282	0.49	19444	33.71
415	70	0.12	3544	6.14	464	151	0.26	8676	15.04	513	290	0.50	19734	34.21
416	74	0.13	3618	6.27	465	152	0.26	8828	15.30	514	285	0.49	20019	34.71
417	69	0.12	3687	6.39	466	160	0.28	8988	15.58	515	315	0.55	20334	35.25
418	70	0.12	3757	6.51	467	166	0.29	9154	15.87	516	256	0.44	20590	35.70
419	71	0.12	3828	6.64	468	180	0.31	9334	16.18	517	280	0.49	20870	36.18
420	73	0.13	3901	6.76	469	169	0.29	9503	16.47	518	293	0.51	21163	36.69
421	70	0.12	3971	6.88	470	180	0.31	9683	16.79	519	306	0.53	21469	37.22
422	87	0.15	4058	7.04	471	171	0.30	9854	17.08	520	275	0.48	21744	37.70
423	69	0.12	4127	7.15	472	174	0.30	10028	17.38	521	268	0.46	22012	38.16
424	103	0.18	4230	7.33	473	181	0.31	10209	17.70	522	311	0.54	22323	38.70
425	84	0.15	4314	7.48	474	184	0.32	10393	18.02	523	318	0.55	22641	39.25
426	71	0.12	4385	7.60	475	201	0.35	10594	18.37	524	305	0.53	22946	39.78
427	88	0.15	4473	7.75	476	196	0.34	10790	18.71	525	297	0.51	23243	40.29
428	76	0.13	4549	7.89	477	195	0.34	10985	19.04	526	278	0.48	23521	40.78
429	73	0.13	4622	8.01	478	201	0.35	11186	19.39	527	313	0.54	23834	41.32
430	83	0.14	4705	8.16	479	198	0.34	11384	19.74	528	276	0.48	24110	41.80
431	91	0.16	4796	8.31	480	193	0.33	11577	20.07	529	307	0.53	24417	42.33
432	92	0.16	4888	8.47	481	205	0.36	11782	20.43	530	290	0.50	24707	42.83
433	74	0.13	4962	8.60	482	210	0.36	11992	20.79	531	313	0.54	25020	43.37
434	96	0.17	5058	8.77	483	200	0.35	12192	21.14	532	304	0.53	25324	43.90
435	90	0.16	5148	8.92	484	233	0.40	12425	21.54	533	314	0.54	25638	44.45
436	98	0.17	5246	9.09	485	222	0.38	12647	21.93	534	285	0.49	25923	44.94
437	112	0.19	5358	9.29	486	235	0.41	12882	22.33	535	326	0.57	26249	45.51
438	102	0.18	5460	9.47	487	238	0.41	13120	22.75	536	310	0.54	26559	46.04
439	95	0.16	5555	9.63	488	186	0.32	13306	23.07	537	318	0.55	26877	46.59



**Table 175. Mathematics Grade 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. %
538	296	0.51	27173	47.11	587	265	0.46	41759	72.39	636	163	0.28	52327	90.71
539	317	0.55	27490	47.66	588	268	0.46	42027	72.86	637	147	0.25	52474	90.97
540	289	0.50	27779	48.16	589	293	0.51	42320	73.37	638	136	0.24	52610	91.21
541	310	0.54	28089	48.70	590	272	0.47	42592	73.84	639	131	0.23	52741	91.43
542	290	0.50	28379	49.20	591	263	0.46	42855	74.29	640	139	0.24	52880	91.67
543	303	0.53	28682	49.72	592	270	0.47	43125	74.76	641	142	0.25	53022	91.92
544	315	0.55	28997	50.27	593	268	0.46	43393	75.23	642	134	0.23	53156	92.15
545	290	0.50	29287	50.77	594	271	0.47	43664	75.70	643	149	0.26	53305	92.41
546	314	0.54	29601	51.32	595	270	0.47	43934	76.16	644	144	0.25	53449	92.66
547	340	0.59	29941	51.91	596	250	0.43	44184	76.60	645	117	0.20	53566	92.86
548	281	0.49	30222	52.39	597	274	0.48	44458	77.07	646	116	0.20	53682	93.06
549	317	0.55	30539	52.94	598	242	0.42	44700	77.49	647	104	0.18	53786	93.24
550	319	0.55	30858	53.50	599	252	0.44	44952	77.93	648	123	0.21	53909	93.46
551	328	0.57	31186	54.06	600	237	0.41	45189	78.34	649	107	0.19	54016	93.64
552	279	0.48	31465	54.55	601	282	0.49	45471	78.83	650	110	0.19	54126	93.83
553	326	0.57	31791	55.11	602	250	0.43	45721	79.26	651	107	0.19	54233	94.02
554	297	0.51	32088	55.63	603	236	0.41	45957	79.67	652	109	0.19	54342	94.21
555	310	0.54	32398	56.17	604	225	0.39	46182	80.06	653	109	0.19	54451	94.40
556	307	0.53	32705	56.70	605	209	0.36	46391	80.42	654	98	0.17	54549	94.57
557	317	0.55	33022	57.25	606	243	0.42	46634	80.85	655	90	0.16	54639	94.72
558	308	0.53	33330	57.78	607	217	0.38	46851	81.22	656	87	0.15	54726	94.87
559	311	0.54	33641	58.32	608	237	0.41	47088	81.63	657	92	0.16	54818	95.03
560	342	0.59	33983	58.91	609	249	0.43	47337	82.06	658	90	0.16	54908	95.19
561	271	0.47	34254	59.38	610	210	0.36	47547	82.43	659	85	0.15	54993	95.34
562	311	0.54	34565	59.92	611	238	0.41	47785	82.84	660	88	0.15	55081	95.49
563	302	0.52	34867	60.45	612	192	0.33	47977	83.17	661	98	0.17	55179	95.66
564	321	0.56	35188	61.00	613	197	0.34	48174	83.52	662	73	0.13	55252	95.79
565	295	0.51	35483	61.51	614	212	0.37	48386	83.88	663	81	0.14	55333	95.93
566	287	0.50	35770	62.01	615	198	0.34	48584	84.23	664	68	0.12	55401	96.04
567	337	0.58	36107	62.60	616	211	0.37	48795	84.59	665	77	0.13	55478	96.18
568	269	0.47	36376	63.06	617	192	0.33	48987	84.92	666	63	0.11	55541	96.29
569	286	0.50	36662	63.56	618	208	0.36	49195	85.29	667	69	0.12	55610	96.41
570	310	0.54	36972	64.10	619	198	0.34	49393	85.63	668	71	0.12	55681	96.53
571	310	0.54	37282	64.63	620	213	0.37	49606	86.00	669	62	0.11	55743	96.64
572	278	0.48	37560	65.11	621	199	0.34	49805	86.34	670	66	0.11	55809	96.75
573	333	0.58	37893	65.69	622	167	0.29	49972	86.63	671	60	0.10	55869	96.86
574	289	0.50	38182	66.19	623	194	0.34	50166	86.97	672	61	0.11	55930	96.96
575	292	0.51	38474	66.70	624	186	0.32	50352	87.29	673	57	0.10	55987	97.06
576	265	0.46	38739	67.16	625	175	0.30	50527	87.59	674	57	0.10	56044	97.16
577	258	0.45	38997	67.61	626	202	0.35	50729	87.94	675	52	0.09	56096	97.25
578	288	0.50	39285	68.10	627	187	0.32	50916	88.27	676	47	0.08	56143	97.33
579	252	0.44	39537	68.54	628	179	0.31	51095	88.58	677	48	0.08	56191	97.41
580	283	0.49	39820	69.03	629	161	0.28	51256	88.86	678	47	0.08	56238	97.49
581	280	0.49	40100	69.52	630	147	0.25	51403	89.11	679	50	0.09	56288	97.58
582	273	0.47	40373	69.99	631	157	0.27	51560	89.39	680	52	0.09	56340	97.67
583	272	0.47	40645	70.46	632	166	0.29	51726	89.67	681	42	0.07	56382	97.74
584	289	0.50	40934	70.96	633	157	0.27	51883	89.95	682	34	0.06	56416	97.80
585	291	0.50	41225	71.47	634	135	0.23	52018	90.18	683	39	0.07	56455	97.87
586	269	0.47	41494	71.93	635	146	0.25	52164	90.43	684	33	0.06	56488	97.93

**Table 175. Mathematics Grade 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	40	0.07	56528	98.00	734	4	0.01	57472	99.63	805	3	0.01	57633	99.91
686	41	0.07	56569	98.07	735	5	0.01	57477	99.64	807	1	0.00	57634	99.92
687	34	0.06	56603	98.13	736	7	0.01	57484	99.66	808	2	0.00	57636	99.92
688	34	0.06	56637	98.19	737	3	0.01	57487	99.66	809	9	0.02	57645	99.93
689	39	0.07	56676	98.25	738	1	0.00	57488	99.66	821	3	0.01	57648	99.94
690	35	0.06	56711	98.31	739	5	0.01	57493	99.67	824	1	0.00	57649	99.94
691	29	0.05	56740	98.37	740	6	0.01	57499	99.68	830	34	0.06	57683	100.00
692	35	0.06	56775	98.43	741	2	0.00	57501	99.68					
693	36	0.06	56811	98.49	742	4	0.01	57505	99.69					
694	29	0.05	56840	98.54	743	2	0.00	57507	99.69					
695	31	0.05	56871	98.59	744	2	0.00	57509	99.70					
696	35	0.06	56906	98.65	745	5	0.01	57514	99.71					
697	29	0.05	56935	98.70	746	3	0.01	57517	99.71					
698	33	0.06	56968	98.76	747	3	0.01	57520	99.72					
699	24	0.04	56992	98.80	748	3	0.01	57523	99.72					
700	27	0.05	57019	98.85	749	3	0.01	57526	99.73					
701	21	0.04	57040	98.89	750	6	0.01	57532	99.74					
702	18	0.03	57058	98.92	751	3	0.01	57535	99.74					
703	19	0.03	57077	98.95	752	8	0.01	57543	99.76					
704	17	0.03	57094	98.98	753	4	0.01	57547	99.76					
705	23	0.04	57117	99.02	754	1	0.00	57548	99.77					
706	14	0.02	57131	99.04	755	5	0.01	57553	99.77					
707	13	0.02	57144	99.07	756	4	0.01	57557	99.78					
708	18	0.03	57162	99.10	757	9	0.02	57566	99.80					
709	18	0.03	57180	99.13	758	2	0.00	57568	99.80					
710	16	0.03	57196	99.16	759	7	0.01	57575	99.81					
711	19	0.03	57215	99.19	760	4	0.01	57579	99.82					
712	28	0.05	57243	99.24	761	2	0.00	57581	99.82					
713	26	0.05	57269	99.28	762	1	0.00	57582	99.82					
714	17	0.03	57286	99.31	764	2	0.00	57584	99.83					
715	16	0.03	57302	99.34	766	3	0.01	57587	99.83					
716	11	0.02	57313	99.36	769	3	0.01	57590	99.84					
717	18	0.03	57331	99.39	770	2	0.00	57592	99.84					
718	16	0.03	57347	99.42	771	4	0.01	57596	99.85					
719	6	0.01	57353	99.43	773	1	0.00	57597	99.85					
720	11	0.02	57364	99.45	774	1	0.00	57598	99.85					
721	5	0.01	57369	99.46	775	4	0.01	57602	99.86					
722	7	0.01	57376	99.47	777	1	0.00	57603	99.86					
723	10	0.02	57386	99.49	780	1	0.00	57604	99.86					
724	11	0.02	57397	99.50	781	2	0.00	57606	99.87					
725	17	0.03	57414	99.53	782	3	0.01	57609	99.87					
726	6	0.01	57420	99.54	786	6	0.01	57615	99.88					
727	6	0.01	57426	99.55	794	5	0.01	57620	99.89					
728	6	0.01	57432	99.56	795	1	0.00	57621	99.89					
729	6	0.01	57438	99.58	798	1	0.00	57622	99.89					
730	6	0.01	57444	99.59	799	2	0.00	57624	99.90					
731	14	0.02	57458	99.61	800	2	0.00	57626	99.90					
732	5	0.01	57463	99.62	802	1	0.00	57627	99.90					
733	5	0.01	57468	99.63	803	3	0.01	57630	99.91					

**Table 176. Reading Grade 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	291	0.51	291	0.51	365	2	0.00	398	0.69	419	5	0.01	597	1.04
305	1	0.00	292	0.51	366	1	0.00	399	0.70	420	2	0.00	599	1.04
306	2	0.00	294	0.51	367	6	0.01	405	0.71	421	6	0.01	605	1.05
308	1	0.00	295	0.51	368	3	0.01	408	0.71	422	5	0.01	610	1.06
309	1	0.00	296	0.52	369	1	0.00	409	0.71	423	5	0.01	615	1.07
311	1	0.00	297	0.52	370	3	0.01	412	0.72	424	6	0.01	621	1.08
312	1	0.00	298	0.52	371	2	0.00	414	0.72	425	4	0.01	625	1.09
314	1	0.00	299	0.52	372	5	0.01	419	0.73	426	11	0.02	636	1.11
315	1	0.00	300	0.52	373	5	0.01	424	0.74	427	4	0.01	640	1.12
316	3	0.01	303	0.53	374	1	0.00	425	0.74	428	3	0.01	643	1.12
319	2	0.00	305	0.53	375	5	0.01	430	0.75	429	5	0.01	648	1.13
320	1	0.00	306	0.53	377	1	0.00	431	0.75	430	5	0.01	653	1.14
321	3	0.01	309	0.54	378	1	0.00	432	0.75	431	8	0.01	661	1.15
322	1	0.00	310	0.54	379	5	0.01	437	0.76	432	7	0.01	668	1.16
324	3	0.01	313	0.55	381	3	0.01	440	0.77	433	12	0.02	680	1.18
325	4	0.01	317	0.55	382	5	0.01	445	0.78	434	4	0.01	684	1.19
327	2	0.00	319	0.56	383	1	0.00	446	0.78	435	8	0.01	692	1.21
328	1	0.00	320	0.56	384	3	0.01	449	0.78	436	12	0.02	704	1.23
329	2	0.00	322	0.56	386	5	0.01	454	0.79	437	7	0.01	711	1.24
330	2	0.00	324	0.56	387	4	0.01	458	0.80	438	10	0.02	721	1.26
331	1	0.00	325	0.57	389	3	0.01	461	0.80	439	14	0.02	735	1.28
332	3	0.01	328	0.57	390	1	0.00	462	0.81	440	10	0.02	745	1.30
333	1	0.00	329	0.57	391	3	0.01	465	0.81	441	7	0.01	752	1.31
335	1	0.00	330	0.58	392	7	0.01	472	0.82	442	11	0.02	763	1.33
336	2	0.00	332	0.58	393	3	0.01	475	0.83	443	8	0.01	771	1.34
338	3	0.01	335	0.58	394	5	0.01	480	0.84	444	12	0.02	783	1.36
339	1	0.00	336	0.59	395	3	0.01	483	0.84	445	13	0.02	796	1.39
340	1	0.00	337	0.59	396	1	0.00	484	0.84	446	15	0.03	811	1.41
341	5	0.01	342	0.60	397	6	0.01	490	0.85	447	15	0.03	826	1.44
342	3	0.01	345	0.60	398	2	0.00	492	0.86	448	14	0.02	840	1.46
343	4	0.01	349	0.61	399	2	0.00	494	0.86	449	16	0.03	856	1.49
344	3	0.01	352	0.61	400	2	0.00	496	0.86	450	12	0.02	868	1.51
345	4	0.01	356	0.62	401	4	0.01	500	0.87	451	14	0.02	882	1.54
346	4	0.01	360	0.63	402	2	0.00	502	0.87	452	14	0.02	896	1.56
347	2	0.00	362	0.63	403	10	0.02	512	0.89	453	10	0.02	906	1.58
348	2	0.00	364	0.63	404	7	0.01	519	0.90	454	13	0.02	919	1.60
350	2	0.00	366	0.64	405	4	0.01	523	0.91	455	13	0.02	932	1.62
351	1	0.00	367	0.64	406	5	0.01	528	0.92	456	12	0.02	944	1.65
352	1	0.00	368	0.64	407	4	0.01	532	0.93	457	11	0.02	955	1.66
353	1	0.00	369	0.64	409	5	0.01	537	0.94	458	15	0.03	970	1.69
354	2	0.00	371	0.65	410	6	0.01	543	0.95	459	15	0.03	985	1.72
355	6	0.01	377	0.66	411	8	0.01	551	0.96	460	11	0.02	996	1.74
356	2	0.00	379	0.66	412	1	0.00	552	0.96	461	21	0.04	1017	1.77
357	3	0.01	382	0.67	413	1	0.00	553	0.96	462	12	0.02	1029	1.79
359	4	0.01	386	0.67	414	7	0.01	560	0.98	463	11	0.02	1040	1.81
360	3	0.01	389	0.68	415	7	0.01	567	0.99	464	15	0.03	1055	1.84
362	1	0.00	390	0.68	416	4	0.01	571	1.00	465	19	0.03	1074	1.87
363	2	0.00	392	0.68	417	9	0.02	580	1.01	466	15	0.03	1089	1.90
364	4	0.01	396	0.69	418	12	0.02	592	1.03	467	17	0.03	1106	1.93

**Table 176. Reading Grade 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. %
468	19	0.03	1125	1.96	517	49	0.09	2719	4.74	566	131	0.23	6837	11.91
469	28	0.05	1153	2.01	518	56	0.10	2775	4.84	567	120	0.21	6957	12.12
470	20	0.03	1173	2.04	519	55	0.10	2830	4.93	568	125	0.22	7082	12.34
471	22	0.04	1195	2.08	520	57	0.10	2887	5.03	569	134	0.23	7216	12.57
472	18	0.03	1213	2.11	521	60	0.10	2947	5.14	570	147	0.26	7363	12.83
473	14	0.02	1227	2.14	522	37	0.06	2984	5.20	571	150	0.26	7513	13.09
474	21	0.04	1248	2.17	523	60	0.10	3044	5.30	572	133	0.23	7646	13.32
475	22	0.04	1270	2.21	524	57	0.10	3101	5.40	573	134	0.23	7780	13.56
476	21	0.04	1291	2.25	525	57	0.10	3158	5.50	574	153	0.27	7933	13.82
477	26	0.05	1317	2.29	526	65	0.11	3223	5.62	575	161	0.28	8094	14.10
478	27	0.05	1344	2.34	527	60	0.10	3283	5.72	576	157	0.27	8251	14.38
479	31	0.05	1375	2.40	528	63	0.11	3346	5.83	577	181	0.32	8432	14.69
480	27	0.05	1402	2.44	529	70	0.12	3416	5.95	578	175	0.30	8607	15.00
481	16	0.03	1418	2.47	530	68	0.12	3484	6.07	579	154	0.27	8761	15.27
482	17	0.03	1435	2.50	531	69	0.12	3553	6.19	580	164	0.29	8925	15.55
483	26	0.05	1461	2.55	532	56	0.10	3609	6.29	581	190	0.33	9115	15.88
484	18	0.03	1479	2.58	533	66	0.12	3675	6.40	582	166	0.29	9281	16.17
485	24	0.04	1503	2.62	534	50	0.09	3725	6.49	583	182	0.32	9463	16.49
486	25	0.04	1528	2.66	535	63	0.11	3788	6.60	584	182	0.32	9645	16.81
487	27	0.05	1555	2.71	536	75	0.13	3863	6.73	585	169	0.29	9814	17.10
488	35	0.06	1590	2.77	537	64	0.11	3927	6.84	586	202	0.35	10016	17.45
489	28	0.05	1618	2.82	538	75	0.13	4002	6.97	587	207	0.36	10223	17.81
490	38	0.07	1656	2.89	539	67	0.12	4069	7.09	588	179	0.31	10402	18.13
491	39	0.07	1695	2.95	540	68	0.12	4137	7.21	589	211	0.37	10613	18.49
492	19	0.03	1714	2.99	541	76	0.13	4213	7.34	590	214	0.37	10827	18.87
493	40	0.07	1754	3.06	542	63	0.11	4276	7.45	591	215	0.37	11042	19.24
494	24	0.04	1778	3.10	543	73	0.13	4349	7.58	592	180	0.31	11222	19.56
495	23	0.04	1801	3.14	544	90	0.16	4439	7.74	593	237	0.41	11459	19.97
496	31	0.05	1832	3.19	545	105	0.18	4544	7.92	594	236	0.41	11695	20.38
497	31	0.05	1863	3.25	546	93	0.16	4637	8.08	595	227	0.40	11922	20.78
498	33	0.06	1896	3.30	547	92	0.16	4729	8.24	596	253	0.44	12175	21.22
499	35	0.06	1931	3.36	548	88	0.15	4817	8.39	597	219	0.38	12394	21.60
500	32	0.06	1963	3.42	549	101	0.18	4918	8.57	598	240	0.42	12634	22.02
501	30	0.05	1993	3.47	550	83	0.14	5001	8.71	599	234	0.41	12868	22.42
502	25	0.04	2018	3.52	551	97	0.17	5098	8.88	600	252	0.44	13120	22.86
503	40	0.07	2058	3.59	552	88	0.15	5186	9.04	601	228	0.40	13348	23.26
504	35	0.06	2093	3.65	553	95	0.17	5281	9.20	602	264	0.46	13612	23.72
505	46	0.08	2139	3.73	554	105	0.18	5386	9.39	603	258	0.45	13870	24.17
506	48	0.08	2187	3.81	555	117	0.20	5503	9.59	604	266	0.46	14136	24.63
507	42	0.07	2229	3.88	556	113	0.20	5616	9.79	605	262	0.46	14398	25.09
508	49	0.09	2278	3.97	557	132	0.23	5748	10.02	606	294	0.51	14692	25.60
509	41	0.07	2319	4.04	558	122	0.21	5870	10.23	607	281	0.49	14973	26.09
510	41	0.07	2360	4.11	559	110	0.19	5980	10.42	608	267	0.47	15240	26.56
511	52	0.09	2412	4.20	560	100	0.17	6080	10.59	609	304	0.53	15544	27.09
512	43	0.07	2455	4.28	561	121	0.21	6201	10.81	610	279	0.49	15823	27.57
513	47	0.08	2502	4.36	562	139	0.24	6340	11.05	611	328	0.57	16151	28.14
514	60	0.10	2562	4.46	563	137	0.24	6477	11.29	612	304	0.53	16455	28.67
515	58	0.10	2620	4.57	564	104	0.18	6581	11.47	613	308	0.54	16763	29.21
516	50	0.09	2670	4.65	565	125	0.22	6706	11.69	614	304	0.53	17067	29.74

**Table 176. Reading Grade 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. %
615	322	0.56	17389	30.30	664	385	0.67	35775	62.34	713	218	0.38	52039	90.68
616	280	0.49	17669	30.79	665	421	0.73	36196	63.07	714	207	0.36	52246	91.04
617	283	0.49	17952	31.28	666	419	0.73	36615	63.80	715	185	0.32	52431	91.37
618	335	0.58	18287	31.87	667	430	0.75	37045	64.55	716	193	0.34	52624	91.70
619	320	0.56	18607	32.42	668	390	0.68	37435	65.23	717	178	0.31	52802	92.01
620	349	0.61	18956	33.03	669	394	0.69	37829	65.92	718	189	0.33	52991	92.34
621	320	0.56	19276	33.59	670	355	0.62	38184	66.54	719	165	0.29	53156	92.63
622	329	0.57	19605	34.16	671	392	0.68	38576	67.22	720	166	0.29	53322	92.92
623	341	0.59	19946	34.76	672	417	0.73	38993	67.95	721	174	0.30	53496	93.22
624	348	0.61	20294	35.36	673	404	0.70	39397	68.65	722	177	0.31	53673	93.53
625	327	0.57	20621	35.93	674	404	0.70	39801	69.36	723	139	0.24	53812	93.77
626	358	0.62	20979	36.56	675	383	0.67	40184	70.02	724	135	0.24	53947	94.01
627	359	0.63	21338	37.18	676	362	0.63	40546	70.65	725	135	0.24	54082	94.24
628	349	0.61	21687	37.79	677	362	0.63	40908	71.29	726	141	0.25	54223	94.49
629	353	0.62	22040	38.41	678	387	0.67	41295	71.96	727	154	0.27	54377	94.76
630	341	0.59	22381	39.00	679	385	0.67	41680	72.63	728	137	0.24	54514	95.00
631	358	0.62	22739	39.62	680	377	0.66	42057	73.29	729	134	0.23	54648	95.23
632	370	0.64	23109	40.27	681	366	0.64	42423	73.93	730	128	0.22	54776	95.45
633	372	0.65	23481	40.92	682	382	0.67	42805	74.59	731	128	0.22	54904	95.67
634	380	0.66	23861	41.58	683	358	0.62	43163	75.22	732	114	0.20	55018	95.87
635	372	0.65	24233	42.23	684	385	0.67	43548	75.89	733	107	0.19	55125	96.06
636	393	0.68	24626	42.91	685	388	0.68	43936	76.56	734	119	0.21	55244	96.27
637	392	0.68	25018	43.60	686	386	0.67	44322	77.23	735	112	0.20	55356	96.46
638	422	0.74	25440	44.33	687	359	0.63	44681	77.86	736	101	0.18	55457	96.64
639	362	0.63	25802	44.96	688	315	0.55	44996	78.41	737	76	0.13	55533	96.77
640	398	0.69	26200	45.66	689	346	0.60	45342	79.01	738	88	0.15	55621	96.92
641	420	0.73	26620	46.39	690	377	0.66	45719	79.67	739	71	0.12	55692	97.05
642	389	0.68	27009	47.07	691	329	0.57	46048	80.24	740	79	0.14	55771	97.19
643	374	0.65	27383	47.72	692	308	0.54	46356	80.78	741	74	0.13	55845	97.31
644	427	0.74	27810	48.46	693	326	0.57	46682	81.35	742	75	0.13	55920	97.45
645	398	0.69	28208	49.15	694	310	0.54	46992	81.89	743	61	0.11	55981	97.55
646	390	0.68	28598	49.83	695	311	0.54	47303	82.43	744	70	0.12	56051	97.67
647	378	0.66	28976	50.49	696	319	0.56	47622	82.99	745	68	0.12	56119	97.79
648	363	0.63	29339	51.13	697	288	0.50	47910	83.49	746	34	0.06	56153	97.85
649	426	0.74	29765	51.87	698	317	0.55	48227	84.04	747	62	0.11	56215	97.96
650	348	0.61	30113	52.47	699	289	0.50	48516	84.54	748	64	0.11	56279	98.07
651	411	0.72	30524	53.19	700	302	0.53	48818	85.07	749	49	0.09	56328	98.16
652	416	0.72	30940	53.92	701	284	0.49	49102	85.56	750	65	0.11	56393	98.27
653	416	0.72	31356	54.64	702	258	0.45	49360	86.01	751	60	0.10	56453	98.37
654	414	0.72	31770	55.36	703	279	0.49	49639	86.50	752	56	0.10	56509	98.47
655	422	0.74	32192	56.10	704	247	0.43	49886	86.93	753	48	0.08	56557	98.56
656	400	0.70	32592	56.79	705	304	0.53	50190	87.46	754	47	0.08	56604	98.64
657	440	0.77	33032	57.56	706	243	0.42	50433	87.88	755	39	0.07	56643	98.71
658	389	0.68	33421	58.24	707	263	0.46	50696	88.34	756	36	0.06	56679	98.77
659	400	0.70	33821	58.94	708	245	0.43	50941	88.77	757	42	0.07	56721	98.84
660	415	0.72	34236	59.66	709	233	0.41	51174	89.18	758	46	0.08	56767	98.92
661	408	0.71	34644	60.37	710	238	0.41	51412	89.59	759	31	0.05	56798	98.98
662	367	0.64	35011	61.01	711	205	0.36	51617	89.95	760	36	0.06	56834	99.04
663	379	0.66	35390	61.67	712	204	0.36	51821	90.30	761	32	0.06	56866	99.09

**Table 176. Reading Grade 7 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
762	34	0.06	56900	99.15	811	3	0.01	57351	99.94
763	16	0.03	56916	99.18	812	2	0.00	57353	99.94
764	26	0.05	56942	99.23	813	3	0.01	57356	99.95
765	27	0.05	56969	99.27	816	2	0.00	57358	99.95
766	15	0.03	56984	99.30	818	1	0.00	57359	99.95
767	20	0.03	57004	99.33	820	1	0.00	57360	99.95
768	25	0.04	57029	99.38	821	1	0.00	57361	99.96
769	13	0.02	57042	99.40	822	1	0.00	57362	99.96
770	30	0.05	57072	99.45	823	2	0.00	57364	99.96
771	20	0.03	57092	99.49	824	1	0.00	57365	99.96
772	19	0.03	57111	99.52	825	2	0.00	57367	99.97
773	15	0.03	57126	99.55	827	2	0.00	57369	99.97
774	14	0.02	57140	99.57	828	1	0.00	57370	99.97
775	14	0.02	57154	99.60	829	1	0.00	57371	99.97
776	5	0.01	57159	99.60	830	1	0.00	57372	99.98
777	11	0.02	57170	99.62	836	2	0.00	57374	99.98
778	9	0.02	57179	99.64	839	1	0.00	57375	99.98
779	14	0.02	57193	99.66	841	1	0.00	57376	99.98
780	9	0.02	57202	99.68	843	1	0.00	57377	99.98
781	11	0.02	57213	99.70	845	2	0.00	57379	99.99
782	8	0.01	57221	99.71	849	2	0.00	57381	99.99
783	10	0.02	57231	99.73	855	1	0.00	57382	99.99
784	10	0.02	57241	99.75	858	1	0.00	57383	99.99
785	9	0.02	57250	99.76	860	1	0.00	57384	100.00
786	8	0.01	57258	99.78	877	1	0.00	57385	100.00
787	8	0.01	57266	99.79	979	1	0.00	57386	100.00
788	3	0.01	57269	99.80					
789	7	0.01	57276	99.81					
790	3	0.01	57279	99.81					
791	5	0.01	57284	99.82					
792	4	0.01	57288	99.83					
793	5	0.01	57293	99.84					
794	2	0.00	57295	99.84					
795	6	0.01	57301	99.85					
796	5	0.01	57306	99.86					
797	4	0.01	57310	99.87					
798	3	0.01	57313	99.87					
799	5	0.01	57318	99.88					
800	5	0.01	57323	99.89					
801	5	0.01	57328	99.90					
802	1	0.00	57329	99.90					
803	3	0.01	57332	99.91					
804	1	0.00	57333	99.91					
805	2	0.00	57335	99.91					
806	3	0.01	57338	99.92					
807	1	0.00	57339	99.92					
808	3	0.01	57342	99.92					
809	4	0.01	57346	99.93					
810	2	0.00	57348	99.93					

**Table 177. Writing Grade 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	338	2	0.00	110	0.19	389	16	0.03	443	0.77
241	1	0.00	27	0.05	339	2	0.00	112	0.20	390	18	0.03	461	0.80
244	1	0.00	28	0.05	340	2	0.00	114	0.20	391	17	0.03	478	0.83
245	2	0.00	30	0.05	341	2	0.00	116	0.20	392	21	0.04	499	0.87
249	1	0.00	31	0.05	342	2	0.00	118	0.21	393	17	0.03	516	0.90
251	1	0.00	32	0.06	343	4	0.01	122	0.21	394	18	0.03	534	0.93
252	1	0.00	33	0.06	344	5	0.01	127	0.22	395	9	0.02	543	0.95
255	2	0.00	35	0.06	347	1	0.00	128	0.22	396	13	0.02	556	0.97
260	2	0.00	37	0.06	348	6	0.01	134	0.23	397	25	0.04	581	1.01
261	1	0.00	38	0.07	349	2	0.00	136	0.24	398	14	0.02	595	1.04
262	2	0.00	40	0.07	350	5	0.01	141	0.25	399	26	0.05	621	1.08
263	1	0.00	41	0.07	351	3	0.01	144	0.25	400	17	0.03	638	1.11
269	3	0.01	44	0.08	352	8	0.01	152	0.26	401	22	0.04	660	1.15
274	2	0.00	46	0.08	353	4	0.01	156	0.27	402	33	0.06	693	1.21
275	3	0.01	49	0.09	354	2	0.00	158	0.28	403	13	0.02	706	1.23
276	1	0.00	50	0.09	355	3	0.01	161	0.28	404	14	0.02	720	1.25
279	1	0.00	51	0.09	356	3	0.01	164	0.29	405	26	0.05	746	1.30
282	2	0.00	53	0.09	357	4	0.01	168	0.29	406	27	0.05	773	1.35
284	1	0.00	54	0.09	358	4	0.01	172	0.30	407	34	0.06	807	1.41
285	2	0.00	56	0.10	359	5	0.01	177	0.31	408	19	0.03	826	1.44
288	3	0.01	59	0.10	360	7	0.01	184	0.32	409	29	0.05	855	1.49
291	1	0.00	60	0.10	361	4	0.01	188	0.33	410	27	0.05	882	1.54
295	1	0.00	61	0.11	362	3	0.01	191	0.33	411	19	0.03	901	1.57
296	2	0.00	63	0.11	363	3	0.01	194	0.34	412	36	0.06	937	1.63
297	2	0.00	65	0.11	364	6	0.01	200	0.35	413	38	0.07	975	1.70
298	2	0.00	67	0.12	365	5	0.01	205	0.36	414	29	0.05	1004	1.75
300	1	0.00	68	0.12	366	15	0.03	220	0.38	415	34	0.06	1038	1.81
302	1	0.00	69	0.12	367	10	0.02	230	0.40	416	38	0.07	1076	1.87
304	1	0.00	70	0.12	368	5	0.01	235	0.41	417	40	0.07	1116	1.94
305	1	0.00	71	0.12	369	9	0.02	244	0.43	418	40	0.07	1156	2.01
307	1	0.00	72	0.13	370	10	0.02	254	0.44	419	27	0.05	1183	2.06
310	2	0.00	74	0.13	371	8	0.01	262	0.46	420	30	0.05	1213	2.11
311	3	0.01	77	0.13	372	8	0.01	270	0.47	421	48	0.08	1261	2.20
312	1	0.00	78	0.14	373	12	0.02	282	0.49	422	55	0.10	1316	2.29
315	1	0.00	79	0.14	374	11	0.02	293	0.51	423	50	0.09	1366	2.38
316	1	0.00	80	0.14	375	9	0.02	302	0.53	424	32	0.06	1398	2.44
318	1	0.00	81	0.14	376	12	0.02	314	0.55	425	45	0.08	1443	2.51
322	1	0.00	82	0.14	377	10	0.02	324	0.56	426	37	0.06	1480	2.58
323	3	0.01	85	0.15	378	14	0.02	338	0.59	427	55	0.10	1535	2.67
324	3	0.01	88	0.15	379	4	0.01	342	0.60	428	49	0.09	1584	2.76
326	3	0.01	91	0.16	380	13	0.02	355	0.62	429	53	0.09	1637	2.85
328	2	0.00	93	0.16	381	7	0.01	362	0.63	430	51	0.09	1688	2.94
329	2	0.00	95	0.17	382	4	0.01	366	0.64	431	69	0.12	1757	3.06
332	1	0.00	96	0.17	383	9	0.02	375	0.65	432	69	0.12	1826	3.18
333	2	0.00	98	0.17	384	8	0.01	383	0.67	433	56	0.10	1882	3.28
334	2	0.00	100	0.17	385	8	0.01	391	0.68	434	66	0.11	1948	3.39
335	3	0.01	103	0.18	386	11	0.02	402	0.70	435	58	0.10	2006	3.50
336	2	0.00	105	0.18	387	17	0.03	419	0.73	436	64	0.11	2070	3.61
337	3	0.01	108	0.19	388	8	0.01	427	0.74	437	81	0.14	2151	3.75

**Table 177. Writing Grade 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. %
438	64	0.11	2215	3.86	487	165	0.29	8236	14.35	536	323	0.56	20941	36.49
439	71	0.12	2286	3.98	488	196	0.34	8432	14.69	537	342	0.60	21283	37.08
440	52	0.09	2338	4.07	489	200	0.35	8632	15.04	538	378	0.66	21661	37.74
441	66	0.11	2404	4.19	490	194	0.34	8826	15.38	539	342	0.60	22003	38.34
442	72	0.13	2476	4.31	491	183	0.32	9009	15.70	540	329	0.57	22332	38.91
443	68	0.12	2544	4.43	492	166	0.29	9175	15.99	541	318	0.55	22650	39.46
444	65	0.11	2609	4.55	493	207	0.36	9382	16.35	542	364	0.63	23014	40.10
445	82	0.14	2691	4.69	494	189	0.33	9571	16.68	543	353	0.62	23367	40.71
446	88	0.15	2779	4.84	495	217	0.38	9788	17.05	544	340	0.59	23707	41.30
447	86	0.15	2865	4.99	496	211	0.37	9999	17.42	545	336	0.59	24043	41.89
448	82	0.14	2947	5.13	497	208	0.36	10207	17.78	546	343	0.60	24386	42.49
449	93	0.16	3040	5.30	498	217	0.38	10424	18.16	547	323	0.56	24709	43.05
450	103	0.18	3143	5.48	499	251	0.44	10675	18.60	548	347	0.60	25056	43.66
451	97	0.17	3240	5.65	500	210	0.37	10885	18.97	549	377	0.66	25433	44.31
452	100	0.17	3340	5.82	501	222	0.39	11107	19.35	550	372	0.65	25805	44.96
453	84	0.15	3424	5.97	502	240	0.42	11347	19.77	551	368	0.64	26173	45.60
454	108	0.19	3532	6.15	503	216	0.38	11563	20.15	552	350	0.61	26523	46.21
455	116	0.20	3648	6.36	504	233	0.41	11796	20.55	553	353	0.62	26876	46.83
456	102	0.18	3750	6.53	505	231	0.40	12027	20.95	554	386	0.67	27262	47.50
457	103	0.18	3853	6.71	506	256	0.45	12283	21.40	555	361	0.63	27623	48.13
458	108	0.19	3961	6.90	507	249	0.43	12532	21.83	556	372	0.65	27995	48.78
459	94	0.16	4055	7.07	508	265	0.46	12797	22.30	557	362	0.63	28357	49.41
460	118	0.21	4173	7.27	509	242	0.42	13039	22.72	558	338	0.59	28695	50.00
461	112	0.20	4285	7.47	510	244	0.43	13283	23.14	559	358	0.62	29053	50.62
462	122	0.21	4407	7.68	511	267	0.47	13550	23.61	560	338	0.59	29391	51.21
463	104	0.18	4511	7.86	512	281	0.49	13831	24.10	561	363	0.63	29754	51.84
464	135	0.24	4646	8.09	513	311	0.54	14142	24.64	562	343	0.60	30097	52.44
465	127	0.22	4773	8.32	514	270	0.47	14412	25.11	563	333	0.58	30430	53.02
466	139	0.24	4912	8.56	515	250	0.44	14662	25.55	564	353	0.62	30783	53.63
467	118	0.21	5030	8.76	516	272	0.47	14934	26.02	565	367	0.64	31150	54.27
468	147	0.26	5177	9.02	517	264	0.46	15198	26.48	566	367	0.64	31517	54.91
469	144	0.25	5321	9.27	518	295	0.51	15493	26.99	567	379	0.66	31896	55.57
470	119	0.21	5440	9.48	519	271	0.47	15764	27.47	568	341	0.59	32237	56.17
471	143	0.25	5583	9.73	520	319	0.56	16083	28.02	569	364	0.63	32601	56.80
472	153	0.27	5736	9.99	521	283	0.49	16366	28.51	570	354	0.62	32955	57.42
473	154	0.27	5890	10.26	522	289	0.50	16655	29.02	571	318	0.55	33273	57.97
474	142	0.25	6032	10.51	523	276	0.48	16931	29.50	572	336	0.59	33609	58.56
475	163	0.28	6195	10.79	524	291	0.51	17222	30.01	573	346	0.60	33955	59.16
476	149	0.26	6344	11.05	525	308	0.54	17530	30.54	574	366	0.64	34321	59.80
477	165	0.29	6509	11.34	526	301	0.52	17831	31.07	575	344	0.60	34665	60.40
478	157	0.27	6666	11.61	527	269	0.47	18100	31.54	576	346	0.60	35011	61.00
479	172	0.30	6838	11.91	528	318	0.55	18418	32.09	577	325	0.57	35336	61.57
480	149	0.26	6987	12.17	529	310	0.54	18728	32.63	578	357	0.62	35693	62.19
481	153	0.27	7140	12.44	530	310	0.54	19038	33.17	579	326	0.57	36019	62.76
482	188	0.33	7328	12.77	531	315	0.55	19353	33.72	580	335	0.58	36354	63.34
483	171	0.30	7499	13.07	532	285	0.50	19638	34.22	581	365	0.64	36719	63.98
484	178	0.31	7677	13.38	533	336	0.59	19974	34.80	582	334	0.58	37053	64.56
485	182	0.32	7859	13.69	534	326	0.57	20300	35.37	583	334	0.58	37387	65.14
486	212	0.37	8071	14.06	535	318	0.55	20618	35.92	584	293	0.51	37680	65.65



**Table 177. Writing Grade 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. %
585	329	0.57	38009	66.22	634	198	0.34	50161	87.40	683	56	0.10	55561	96.80
586	294	0.51	38303	66.74	635	183	0.32	50344	87.71	684	72	0.13	55633	96.93
587	325	0.57	38628	67.30	636	161	0.28	50505	88.00	685	64	0.11	55697	97.04
588	291	0.51	38919	67.81	637	168	0.29	50673	88.29	686	50	0.09	55747	97.13
589	297	0.52	39216	68.33	638	154	0.27	50827	88.56	687	53	0.09	55800	97.22
590	338	0.59	39554	68.92	639	183	0.32	51010	88.88	688	48	0.08	55848	97.30
591	285	0.50	39839	69.41	640	159	0.28	51169	89.15	689	51	0.09	55899	97.39
592	281	0.49	40120	69.90	641	165	0.29	51334	89.44	690	34	0.06	55933	97.45
593	293	0.51	40413	70.41	642	151	0.26	51485	89.70	691	65	0.11	55998	97.57
594	339	0.59	40752	71.00	643	152	0.26	51637	89.97	692	47	0.08	56045	97.65
595	279	0.49	41031	71.49	644	134	0.23	51771	90.20	693	56	0.10	56101	97.75
596	324	0.56	41355	72.05	645	144	0.25	51915	90.45	694	25	0.04	56126	97.79
597	278	0.48	41633	72.54	646	150	0.26	52065	90.71	695	38	0.07	56164	97.86
598	300	0.52	41933	73.06	647	144	0.25	52209	90.96	696	40	0.07	56204	97.92
599	261	0.45	42194	73.52	648	134	0.23	52343	91.20	697	50	0.09	56254	98.01
600	271	0.47	42465	73.99	649	131	0.23	52474	91.43	698	31	0.05	56285	98.07
601	250	0.44	42715	74.42	650	129	0.22	52603	91.65	699	31	0.05	56316	98.12
602	269	0.47	42984	74.89	651	132	0.23	52735	91.88	700	21	0.04	56337	98.16
603	265	0.46	43249	75.35	652	121	0.21	52856	92.09	701	69	0.12	56406	98.28
604	271	0.47	43520	75.83	653	121	0.21	52977	92.30	702	34	0.06	56440	98.34
605	271	0.47	43791	76.30	654	120	0.21	53097	92.51	703	38	0.07	56478	98.40
606	289	0.50	44080	76.80	655	123	0.21	53220	92.73	704	17	0.03	56495	98.43
607	268	0.47	44348	77.27	656	97	0.17	53317	92.89	705	32	0.06	56527	98.49
608	240	0.42	44588	77.69	657	115	0.20	53432	93.10	706	24	0.04	56551	98.53
609	244	0.43	44832	78.11	658	107	0.19	53539	93.28	707	12	0.02	56563	98.55
610	272	0.47	45104	78.59	659	132	0.23	53671	93.51	708	30	0.05	56593	98.60
611	244	0.43	45348	79.01	660	99	0.17	53770	93.68	709	29	0.05	56622	98.65
612	237	0.41	45585	79.42	661	109	0.19	53879	93.87	710	19	0.03	56641	98.69
613	227	0.40	45812	79.82	662	104	0.18	53983	94.06	711	18	0.03	56659	98.72
614	244	0.43	46056	80.24	663	99	0.17	54082	94.23	712	17	0.03	56676	98.75
615	240	0.42	46296	80.66	664	108	0.19	54190	94.42	713	16	0.03	56692	98.78
616	255	0.44	46551	81.11	665	90	0.16	54280	94.57	714	20	0.03	56712	98.81
617	234	0.41	46785	81.51	666	84	0.15	54364	94.72	715	40	0.07	56752	98.88
618	219	0.38	47004	81.90	667	85	0.15	54449	94.87	716	18	0.03	56770	98.91
619	223	0.39	47227	82.28	668	88	0.15	54537	95.02	717	23	0.04	56793	98.95
620	231	0.40	47458	82.69	669	78	0.14	54615	95.16	718	14	0.02	56807	98.98
621	218	0.38	47676	83.07	670	88	0.15	54703	95.31	719	9	0.02	56816	98.99
622	212	0.37	47888	83.44	671	82	0.14	54785	95.45	720	16	0.03	56832	99.02
623	216	0.38	48104	83.81	672	51	0.09	54836	95.54	721	26	0.05	56858	99.06
624	195	0.34	48299	84.15	673	75	0.13	54911	95.67	722	21	0.04	56879	99.10
625	183	0.32	48482	84.47	674	73	0.13	54984	95.80	723	19	0.03	56898	99.13
626	202	0.35	48684	84.82	675	86	0.15	55070	95.95	724	12	0.02	56910	99.15
627	185	0.32	48869	85.15	676	60	0.10	55130	96.05	725	15	0.03	56925	99.18
628	193	0.34	49062	85.48	677	82	0.14	55212	96.20	726	12	0.02	56937	99.20
629	180	0.31	49242	85.79	678	58	0.10	55270	96.30	727	18	0.03	56955	99.23
630	194	0.34	49436	86.13	679	62	0.11	55332	96.41	728	7	0.01	56962	99.25
631	187	0.33	49623	86.46	680	70	0.12	55402	96.53	729	16	0.03	56978	99.27
632	171	0.30	49794	86.76	681	54	0.09	55456	96.62	730	12	0.02	56990	99.29
633	169	0.29	49963	87.05	682	49	0.09	55505	96.71	731	21	0.04	57011	99.33

**Table 177. Writing Grade 7 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
732	12	0.02	57023	99.35	787	1	0.00	57299	99.83
733	13	0.02	57036	99.37	788	4	0.01	57303	99.84
734	15	0.03	57051	99.40	790	3	0.01	57306	99.84
735	7	0.01	57058	99.41	793	2	0.00	57308	99.85
736	8	0.01	57066	99.43	794	3	0.01	57311	99.85
737	8	0.01	57074	99.44	797	1	0.00	57312	99.86
738	11	0.02	57085	99.46	798	3	0.01	57315	99.86
739	10	0.02	57095	99.48	800	2	0.00	57317	99.86
740	7	0.01	57102	99.49	802	1	0.00	57318	99.87
741	18	0.03	57120	99.52	804	6	0.01	57324	99.88
742	3	0.01	57123	99.53	810	1	0.00	57325	99.88
743	3	0.01	57126	99.53	818	18	0.03	57343	99.91
744	6	0.01	57132	99.54	824	5	0.01	57348	99.92
745	9	0.02	57141	99.56	826	1	0.00	57349	99.92
746	3	0.01	57144	99.56	828	13	0.02	57362	99.94
748	4	0.01	57148	99.57	838	1	0.00	57363	99.94
749	30	0.05	57178	99.62	840	2	0.00	57365	99.95
750	3	0.01	57181	99.63	845	2	0.00	57367	99.95
751	5	0.01	57186	99.64	852	1	0.00	57368	99.95
752	5	0.01	57191	99.64	890	27	0.05	57395	100.00
753	9	0.02	57200	99.66					
754	8	0.01	57208	99.67					
755	4	0.01	57212	99.68					
756	1	0.00	57213	99.68					
757	1	0.00	57214	99.68					
758	4	0.01	57218	99.69					
759	1	0.00	57219	99.69					
760	2	0.00	57221	99.70					
762	2	0.00	57223	99.70					
763	7	0.01	57230	99.71					
764	3	0.01	57233	99.72					
765	4	0.01	57237	99.72					
766	2	0.00	57239	99.73					
767	7	0.01	57246	99.74					
768	1	0.00	57247	99.74					
769	1	0.00	57248	99.74					
770	1	0.00	57249	99.75					
771	1	0.00	57250	99.75					
772	1	0.00	57251	99.75					
774	2	0.00	57253	99.75					
775	6	0.01	57259	99.76					
776	17	0.03	57276	99.79					
777	2	0.00	57278	99.80					
778	1	0.00	57279	99.80					
779	1	0.00	57280	99.80					
780	8	0.01	57288	99.81					
781	7	0.01	57295	99.83					
785	1	0.00	57296	99.83					
786	2	0.00	57298	99.83					

**Table 178. Mathematics Grade 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	291	0.51	291	0.51	330	3	0.01	513	0.89	379	20	0.03	1112	1.94
281	3	0.01	294	0.51	331	7	0.01	520	0.91	380	23	0.04	1135	1.98
282	6	0.01	300	0.52	332	8	0.01	528	0.92	381	21	0.04	1156	2.01
283	1	0.00	301	0.52	333	4	0.01	532	0.93	382	23	0.04	1179	2.05
285	3	0.01	304	0.53	334	7	0.01	539	0.94	383	19	0.03	1198	2.09
286	1	0.00	305	0.53	335	11	0.02	550	0.96	384	26	0.05	1224	2.13
287	3	0.01	308	0.54	336	9	0.02	559	0.97	385	18	0.03	1242	2.16
288	6	0.01	314	0.55	337	7	0.01	566	0.99	386	18	0.03	1260	2.20
289	3	0.01	317	0.55	338	7	0.01	573	1.00	387	19	0.03	1279	2.23
290	6	0.01	323	0.56	339	11	0.02	584	1.02	388	18	0.03	1297	2.26
291	4	0.01	327	0.57	340	7	0.01	591	1.03	389	26	0.05	1323	2.31
292	1	0.00	328	0.57	341	9	0.02	600	1.05	390	28	0.05	1351	2.35
293	3	0.01	331	0.58	342	12	0.02	612	1.07	391	25	0.04	1376	2.40
294	3	0.01	334	0.58	343	7	0.01	619	1.08	392	19	0.03	1395	2.43
295	5	0.01	339	0.59	344	13	0.02	632	1.10	393	21	0.04	1416	2.47
296	2	0.00	341	0.59	345	6	0.01	638	1.11	394	31	0.05	1447	2.52
297	4	0.01	345	0.60	346	9	0.02	647	1.13	395	23	0.04	1470	2.56
298	2	0.00	347	0.60	347	7	0.01	654	1.14	396	28	0.05	1498	2.61
299	3	0.01	350	0.61	348	8	0.01	662	1.15	397	27	0.05	1525	2.66
300	3	0.01	353	0.62	349	15	0.03	677	1.18	398	31	0.05	1556	2.71
301	5	0.01	358	0.62	350	15	0.03	692	1.21	399	27	0.05	1583	2.76
302	5	0.01	363	0.63	351	14	0.02	706	1.23	400	24	0.04	1607	2.80
303	8	0.01	371	0.65	352	10	0.02	716	1.25	401	31	0.05	1638	2.85
304	5	0.01	376	0.66	353	13	0.02	729	1.27	402	34	0.06	1672	2.91
305	4	0.01	380	0.66	354	10	0.02	739	1.29	403	25	0.04	1697	2.96
306	7	0.01	387	0.67	355	10	0.02	749	1.31	404	33	0.06	1730	3.01
307	4	0.01	391	0.68	356	14	0.02	763	1.33	405	30	0.05	1760	3.07
308	8	0.01	399	0.70	357	16	0.03	779	1.36	406	30	0.05	1790	3.12
309	8	0.01	407	0.71	358	19	0.03	798	1.39	407	21	0.04	1811	3.16
310	4	0.01	411	0.72	359	13	0.02	811	1.41	408	29	0.05	1840	3.21
311	5	0.01	416	0.72	360	20	0.03	831	1.45	409	37	0.06	1877	3.27
312	4	0.01	420	0.73	361	19	0.03	850	1.48	410	27	0.05	1904	3.32
313	1	0.00	421	0.73	362	11	0.02	861	1.50	411	28	0.05	1932	3.37
314	6	0.01	427	0.74	363	10	0.02	871	1.52	412	38	0.07	1970	3.43
315	2	0.00	429	0.75	364	13	0.02	884	1.54	413	32	0.06	2002	3.49
316	7	0.01	436	0.76	365	12	0.02	896	1.56	414	30	0.05	2032	3.54
317	2	0.00	438	0.76	366	12	0.02	908	1.58	415	41	0.07	2073	3.61
318	6	0.01	444	0.77	367	16	0.03	924	1.61	416	30	0.05	2103	3.66
319	6	0.01	450	0.78	368	13	0.02	937	1.63	417	30	0.05	2133	3.72
320	8	0.01	458	0.80	369	16	0.03	953	1.66	418	39	0.07	2172	3.78
321	2	0.00	460	0.80	370	24	0.04	977	1.70	419	38	0.07	2210	3.85
322	3	0.01	463	0.81	371	7	0.01	984	1.71	420	35	0.06	2245	3.91
323	2	0.00	465	0.81	372	10	0.02	994	1.73	421	37	0.06	2282	3.98
324	8	0.01	473	0.82	373	17	0.03	1011	1.76	422	36	0.06	2318	4.04
325	9	0.02	482	0.84	374	19	0.03	1030	1.79	423	43	0.07	2361	4.11
326	7	0.01	489	0.85	375	18	0.03	1048	1.83	424	46	0.08	2407	4.19
327	5	0.01	494	0.86	376	10	0.02	1058	1.84	425	47	0.08	2454	4.28
328	5	0.01	499	0.87	377	19	0.03	1077	1.88	426	28	0.05	2482	4.32
329	11	0.02	510	0.89	378	15	0.03	1092	1.90	427	52	0.09	2534	4.42

**Table 178. Mathematics Grade 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. %
428	45	0.08	2579	4.49	477	128	0.22	6496	11.32	526	263	0.46	16327	28.45
429	46	0.08	2625	4.57	478	140	0.24	6636	11.56	527	259	0.45	16586	28.90
430	54	0.09	2679	4.67	479	135	0.24	6771	11.80	528	265	0.46	16851	29.36
431	54	0.09	2733	4.76	480	150	0.26	6921	12.06	529	275	0.48	17126	29.84
432	56	0.10	2789	4.86	481	155	0.27	7076	12.33	530	248	0.43	17374	30.27
433	57	0.10	2846	4.96	482	122	0.21	7198	12.54	531	284	0.49	17658	30.77
434	50	0.09	2896	5.05	483	143	0.25	7341	12.79	532	310	0.54	17968	31.31
435	53	0.09	2949	5.14	484	134	0.23	7475	13.02	533	309	0.54	18277	31.85
436	62	0.11	3011	5.25	485	141	0.25	7616	13.27	534	279	0.49	18556	32.33
437	66	0.11	3077	5.36	486	157	0.27	7773	13.54	535	302	0.53	18858	32.86
438	63	0.11	3140	5.47	487	159	0.28	7932	13.82	536	306	0.53	19164	33.39
439	56	0.10	3196	5.57	488	168	0.29	8100	14.11	537	282	0.49	19446	33.88
440	69	0.12	3265	5.69	489	150	0.26	8250	14.37	538	267	0.47	19713	34.35
441	59	0.10	3324	5.79	490	159	0.28	8409	14.65	539	282	0.49	19995	34.84
442	62	0.11	3386	5.90	491	165	0.29	8574	14.94	540	309	0.54	20304	35.38
443	42	0.07	3428	5.97	492	163	0.28	8737	15.22	541	320	0.56	20624	35.93
444	54	0.09	3482	6.07	493	158	0.28	8895	15.50	542	318	0.55	20942	36.49
445	69	0.12	3551	6.19	494	174	0.30	9069	15.80	543	280	0.49	21222	36.98
446	61	0.11	3612	6.29	495	166	0.29	9235	16.09	544	321	0.56	21543	37.54
447	60	0.10	3672	6.40	496	193	0.34	9428	16.43	545	281	0.49	21824	38.03
448	77	0.13	3749	6.53	497	188	0.33	9616	16.75	546	304	0.53	22128	38.56
449	66	0.11	3815	6.65	498	186	0.32	9802	17.08	547	321	0.56	22449	39.11
450	63	0.11	3878	6.76	499	185	0.32	9987	17.40	548	308	0.54	22757	39.65
451	61	0.11	3939	6.86	500	177	0.31	10164	17.71	549	350	0.61	23107	40.26
452	75	0.13	4014	6.99	501	200	0.35	10364	18.06	550	333	0.58	23440	40.84
453	59	0.10	4073	7.10	502	197	0.34	10561	18.40	551	352	0.61	23792	41.45
454	88	0.15	4161	7.25	503	199	0.35	10760	18.75	552	320	0.56	24112	42.01
455	76	0.13	4237	7.38	504	232	0.40	10992	19.15	553	328	0.57	24440	42.58
456	89	0.16	4326	7.54	505	191	0.33	11183	19.48	554	331	0.58	24771	43.16
457	69	0.12	4395	7.66	506	196	0.34	11379	19.83	555	332	0.58	25103	43.74
458	86	0.15	4481	7.81	507	220	0.38	11599	20.21	556	315	0.55	25418	44.29
459	98	0.17	4579	7.98	508	218	0.38	11817	20.59	557	317	0.55	25735	44.84
460	98	0.17	4677	8.15	509	238	0.41	12055	21.00	558	344	0.60	26079	45.44
461	84	0.15	4761	8.30	510	223	0.39	12278	21.39	559	310	0.54	26389	45.98
462	95	0.17	4856	8.46	511	226	0.39	12504	21.79	560	345	0.60	26734	46.58
463	82	0.14	4938	8.60	512	223	0.39	12727	22.18	561	318	0.55	27052	47.13
464	117	0.20	5055	8.81	513	255	0.44	12982	22.62	562	345	0.60	27397	47.74
465	102	0.18	5157	8.99	514	229	0.40	13211	23.02	563	301	0.52	27698	48.26
466	99	0.17	5256	9.16	515	255	0.44	13466	23.46	564	370	0.64	28068	48.90
467	98	0.17	5354	9.33	516	258	0.45	13724	23.91	565	334	0.58	28402	49.49
468	96	0.17	5450	9.50	517	253	0.44	13977	24.35	566	322	0.56	28724	50.05
469	114	0.20	5564	9.69	518	245	0.43	14222	24.78	567	343	0.60	29067	50.65
470	121	0.21	5685	9.91	519	235	0.41	14457	25.19	568	358	0.62	29425	51.27
471	107	0.19	5792	10.09	520	250	0.44	14707	25.63	569	339	0.59	29764	51.86
472	101	0.18	5893	10.27	521	250	0.44	14957	26.06	570	348	0.61	30112	52.47
473	119	0.21	6012	10.48	522	279	0.49	15236	26.55	571	327	0.57	30439	53.04
474	110	0.19	6122	10.67	523	265	0.46	15501	27.01	572	340	0.59	30779	53.63
475	127	0.22	6249	10.89	524	271	0.47	15772	27.48	573	362	0.63	31141	54.26
476	119	0.21	6368	11.10	525	292	0.51	16064	27.99	574	316	0.55	31457	54.81

**Table 178. Mathematics Grade 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	357	0.62	31814	55.43	624	262	0.46	46697	81.36	673	87	0.15	54865	95.60
576	306	0.53	32120	55.97	625	230	0.40	46927	81.76	674	89	0.16	54954	95.75
577	359	0.63	32479	56.59	626	258	0.45	47185	82.21	675	106	0.18	55060	95.94
578	350	0.61	32829	57.20	627	226	0.39	47411	82.61	676	93	0.16	55153	96.10
579	309	0.54	33138	57.74	628	236	0.41	47647	83.02	677	72	0.13	55225	96.22
580	338	0.59	33476	58.33	629	231	0.40	47878	83.42	678	76	0.13	55301	96.35
581	317	0.55	33793	58.88	630	226	0.39	48104	83.82	679	63	0.11	55364	96.46
582	339	0.59	34132	59.47	631	216	0.38	48320	84.19	680	66	0.11	55430	96.58
583	305	0.53	34437	60.00	632	224	0.39	48544	84.58	681	95	0.17	55525	96.75
584	352	0.61	34789	60.62	633	204	0.36	48748	84.94	682	62	0.11	55587	96.85
585	317	0.55	35106	61.17	634	218	0.38	48966	85.32	683	66	0.11	55653	96.97
586	339	0.59	35445	61.76	635	209	0.36	49175	85.68	684	74	0.13	55727	97.10
587	301	0.52	35746	62.28	636	216	0.38	49391	86.06	685	63	0.11	55790	97.21
588	348	0.61	36094	62.89	637	224	0.39	49615	86.45	686	69	0.12	55859	97.33
589	329	0.57	36423	63.46	638	209	0.36	49824	86.81	687	50	0.09	55909	97.41
590	316	0.55	36739	64.01	639	187	0.33	50011	87.14	688	50	0.09	55959	97.50
591	314	0.55	37053	64.56	640	186	0.32	50197	87.46	689	57	0.10	56016	97.60
592	301	0.52	37354	65.08	641	191	0.33	50388	87.79	690	47	0.08	56063	97.68
593	307	0.53	37661	65.62	642	211	0.37	50599	88.16	691	58	0.10	56121	97.78
594	353	0.62	38014	66.23	643	192	0.33	50791	88.50	692	55	0.10	56176	97.88
595	288	0.50	38302	66.74	644	193	0.34	50984	88.83	693	51	0.09	56227	97.97
596	302	0.53	38604	67.26	645	173	0.30	51157	89.13	694	43	0.07	56270	98.04
597	308	0.54	38912	67.80	646	167	0.29	51324	89.43	695	49	0.09	56319	98.13
598	317	0.55	39229	68.35	647	170	0.30	51494	89.72	696	43	0.07	56362	98.20
599	308	0.54	39537	68.89	648	200	0.35	51694	90.07	697	41	0.07	56403	98.28
600	292	0.51	39829	69.40	649	155	0.27	51849	90.34	698	46	0.08	56449	98.36
601	302	0.53	40131	69.92	650	182	0.32	52031	90.66	699	48	0.08	56497	98.44
602	321	0.56	40452	70.48	651	170	0.30	52201	90.95	700	34	0.06	56531	98.50
603	324	0.56	40776	71.05	652	157	0.27	52358	91.23	701	46	0.08	56577	98.58
604	293	0.51	41069	71.56	653	154	0.27	52512	91.50	702	33	0.06	56610	98.64
605	292	0.51	41361	72.07	654	147	0.26	52659	91.75	703	31	0.05	56641	98.69
606	307	0.53	41668	72.60	655	156	0.27	52815	92.02	704	27	0.05	56668	98.74
607	272	0.47	41940	73.08	656	122	0.21	52937	92.24	705	25	0.04	56693	98.78
608	291	0.51	42231	73.58	657	115	0.20	53052	92.44	706	34	0.06	56727	98.84
609	299	0.52	42530	74.10	658	124	0.22	53176	92.65	707	27	0.05	56754	98.89
610	286	0.50	42816	74.60	659	126	0.22	53302	92.87	708	20	0.03	56774	98.92
611	290	0.51	43106	75.11	660	139	0.24	53441	93.11	709	23	0.04	56797	98.96
612	316	0.55	43422	75.66	661	131	0.23	53572	93.34	710	16	0.03	56813	98.99
613	326	0.57	43748	76.23	662	125	0.22	53697	93.56	711	27	0.05	56840	99.04
614	269	0.47	44017	76.69	663	111	0.19	53808	93.75	712	23	0.04	56863	99.08
615	276	0.48	44293	77.17	664	95	0.17	53903	93.92	713	19	0.03	56882	99.11
616	262	0.46	44555	77.63	665	123	0.21	54026	94.13	714	16	0.03	56898	99.14
617	289	0.50	44844	78.13	666	113	0.20	54139	94.33	715	22	0.04	56920	99.18
618	277	0.48	45121	78.62	667	121	0.21	54260	94.54	716	19	0.03	56939	99.21
619	263	0.46	45384	79.08	668	109	0.19	54369	94.73	717	22	0.04	56961	99.25
620	249	0.43	45633	79.51	669	117	0.20	54486	94.93	718	19	0.03	56980	99.28
621	274	0.48	45907	79.99	670	111	0.19	54597	95.13	719	16	0.03	56996	99.31
622	271	0.47	46178	80.46	671	82	0.14	54679	95.27	720	16	0.03	57012	99.34
623	257	0.45	46435	80.91	672	99	0.17	54778	95.44	721	17	0.03	57029	99.37

**Table 178. Mathematics Grade 7 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
722	12	0.02	57041	99.39	772	5	0.01	57330	99.89
723	14	0.02	57055	99.41	773	1	0.00	57331	99.89
724	11	0.02	57066	99.43	774	3	0.01	57334	99.90
725	8	0.01	57074	99.44	775	3	0.01	57337	99.90
726	13	0.02	57087	99.47	776	1	0.00	57338	99.90
727	9	0.02	57096	99.48	777	1	0.00	57339	99.91
728	11	0.02	57107	99.50	778	2	0.00	57341	99.91
729	10	0.02	57117	99.52	779	1	0.00	57342	99.91
730	13	0.02	57130	99.54	780	2	0.00	57344	99.91
731	10	0.02	57140	99.56	781	1	0.00	57345	99.92
732	13	0.02	57153	99.58	783	1	0.00	57346	99.92
733	9	0.02	57162	99.60	784	3	0.01	57349	99.92
734	10	0.02	57172	99.61	787	3	0.01	57352	99.93
735	4	0.01	57176	99.62	789	5	0.01	57357	99.94
736	7	0.01	57183	99.63	790	1	0.00	57358	99.94
737	10	0.02	57193	99.65	791	1	0.00	57359	99.94
738	8	0.01	57201	99.67	794	1	0.00	57360	99.94
739	9	0.02	57210	99.68	797	1	0.00	57361	99.94
740	8	0.01	57218	99.70	798	1	0.00	57362	99.95
741	6	0.01	57224	99.71	800	1	0.00	57363	99.95
742	4	0.01	57228	99.71	801	1	0.00	57364	99.95
743	6	0.01	57234	99.72	802	1	0.00	57365	99.95
744	6	0.01	57240	99.73	803	1	0.00	57366	99.95
745	5	0.01	57245	99.74	808	3	0.01	57369	99.96
746	7	0.01	57252	99.75	811	2	0.00	57371	99.96
747	3	0.01	57255	99.76	813	1	0.00	57372	99.96
748	2	0.00	57257	99.76	819	1	0.00	57373	99.97
749	7	0.01	57264	99.78	821	1	0.00	57374	99.97
750	5	0.01	57269	99.78	826	1	0.00	57375	99.97
751	2	0.00	57271	99.79	836	1	0.00	57376	99.97
752	2	0.00	57273	99.79	838	3	0.01	57379	99.98
753	7	0.01	57280	99.80	842	1	0.00	57380	99.98
754	1	0.00	57281	99.80	859	1	0.00	57381	99.98
755	4	0.01	57285	99.81	860	12	0.02	57393	100.00
756	3	0.01	57288	99.82					
757	3	0.01	57291	99.82					
758	1	0.00	57292	99.82					
759	1	0.00	57293	99.83					
760	3	0.01	57296	99.83					
761	2	0.00	57298	99.83					
762	4	0.01	57302	99.84					
763	5	0.01	57307	99.85					
764	5	0.01	57312	99.86					
765	1	0.00	57313	99.86					
767	3	0.01	57316	99.87					
768	3	0.01	57319	99.87					
769	2	0.00	57321	99.87					
770	2	0.00	57323	99.88					
771	2	0.00	57325	99.88					

**Table 179. Reading Grade 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	108	0.19	108	0.19	404	2	0.00	215	0.38	455	7	0.01	428	0.75
331	1	0.00	109	0.19	406	1	0.00	216	0.38	456	6	0.01	434	0.76
332	3	0.01	112	0.20	408	2	0.00	218	0.38	457	9	0.02	443	0.78
333	2	0.00	114	0.20	409	2	0.00	220	0.39	458	6	0.01	449	0.79
334	2	0.00	116	0.20	410	2	0.00	222	0.39	459	7	0.01	456	0.80
335	1	0.00	117	0.20	411	2	0.00	224	0.39	460	8	0.01	464	0.81
340	2	0.00	119	0.21	412	3	0.01	227	0.40	461	7	0.01	471	0.83
341	1	0.00	120	0.21	413	3	0.01	230	0.40	462	4	0.01	475	0.83
346	1	0.00	121	0.21	414	1	0.00	231	0.40	463	12	0.02	487	0.85
352	1	0.00	122	0.21	415	1	0.00	232	0.41	464	7	0.01	494	0.87
353	2	0.00	124	0.22	416	5	0.01	237	0.42	465	9	0.02	503	0.88
355	3	0.01	127	0.22	417	3	0.01	240	0.42	466	8	0.01	511	0.90
356	2	0.00	129	0.23	418	4	0.01	244	0.43	467	4	0.01	515	0.90
357	1	0.00	130	0.23	419	1	0.00	245	0.43	468	10	0.02	525	0.92
358	2	0.00	132	0.23	420	2	0.00	247	0.43	469	12	0.02	537	0.94
359	1	0.00	133	0.23	421	1	0.00	248	0.43	470	8	0.01	545	0.95
360	1	0.00	134	0.23	422	5	0.01	253	0.44	471	8	0.01	553	0.97
362	4	0.01	138	0.24	423	4	0.01	257	0.45	472	9	0.02	562	0.98
364	1	0.00	139	0.24	424	4	0.01	261	0.46	473	9	0.02	571	1.00
365	3	0.01	142	0.25	425	4	0.01	265	0.46	474	12	0.02	583	1.02
369	5	0.01	147	0.26	426	6	0.01	271	0.47	475	15	0.03	598	1.05
371	1	0.00	148	0.26	427	2	0.00	273	0.48	476	18	0.03	616	1.08
373	6	0.01	154	0.27	428	3	0.01	276	0.48	477	17	0.03	633	1.11
374	3	0.01	157	0.28	429	4	0.01	280	0.49	478	11	0.02	644	1.13
375	1	0.00	158	0.28	430	4	0.01	284	0.50	479	7	0.01	651	1.14
377	5	0.01	163	0.29	431	1	0.00	285	0.50	480	13	0.02	664	1.16
379	1	0.00	164	0.29	432	7	0.01	292	0.51	481	13	0.02	677	1.19
380	1	0.00	165	0.29	433	5	0.01	297	0.52	482	9	0.02	686	1.20
381	5	0.01	170	0.30	434	7	0.01	304	0.53	483	12	0.02	698	1.22
382	1	0.00	171	0.30	435	7	0.01	311	0.54	484	16	0.03	714	1.25
383	2	0.00	173	0.30	436	6	0.01	317	0.56	485	20	0.04	734	1.29
384	1	0.00	174	0.30	437	2	0.00	319	0.56	486	18	0.03	752	1.32
385	4	0.01	178	0.31	438	4	0.01	323	0.57	487	26	0.05	778	1.36
386	1	0.00	179	0.31	439	5	0.01	328	0.57	488	19	0.03	797	1.40
387	4	0.01	183	0.32	440	5	0.01	333	0.58	489	19	0.03	816	1.43
389	2	0.00	185	0.32	441	10	0.02	343	0.60	490	19	0.03	835	1.46
390	2	0.00	187	0.33	442	2	0.00	345	0.60	491	17	0.03	852	1.49
391	1	0.00	188	0.33	443	5	0.01	350	0.61	492	21	0.04	873	1.53
392	1	0.00	189	0.33	444	6	0.01	356	0.62	493	12	0.02	885	1.55
393	1	0.00	190	0.33	445	5	0.01	361	0.63	494	17	0.03	902	1.58
394	4	0.01	194	0.34	446	4	0.01	365	0.64	495	22	0.04	924	1.62
395	3	0.01	197	0.35	447	4	0.01	369	0.65	496	17	0.03	941	1.65
397	2	0.00	199	0.35	448	6	0.01	375	0.66	497	29	0.05	970	1.70
398	1	0.00	200	0.35	449	9	0.02	384	0.67	498	17	0.03	987	1.73
399	1	0.00	201	0.35	450	4	0.01	388	0.68	499	26	0.05	1013	1.77
400	3	0.01	204	0.36	451	8	0.01	396	0.69	500	28	0.05	1041	1.82
401	4	0.01	208	0.36	452	8	0.01	404	0.71	501	24	0.04	1065	1.87
402	3	0.01	211	0.37	453	10	0.02	414	0.73	502	19	0.03	1084	1.90
403	2	0.00	213	0.37	454	7	0.01	421	0.74	503	21	0.04	1105	1.94

**Table 179. Reading Grade 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. %
504	28	0.05	1133	1.98	553	74	0.13	3643	6.38	602	223	0.39	11108	19.46
505	26	0.05	1159	2.03	554	81	0.14	3724	6.52	603	239	0.42	11347	19.88
506	18	0.03	1177	2.06	555	86	0.15	3810	6.67	604	257	0.45	11604	20.33
507	22	0.04	1199	2.10	556	79	0.14	3889	6.81	605	235	0.41	11839	20.74
508	26	0.05	1225	2.15	557	95	0.17	3984	6.98	606	252	0.44	12091	21.18
509	24	0.04	1249	2.19	558	96	0.17	4080	7.15	607	264	0.46	12355	21.64
510	25	0.04	1274	2.23	559	92	0.16	4172	7.31	608	236	0.41	12591	22.06
511	37	0.06	1311	2.30	560	92	0.16	4264	7.47	609	279	0.49	12870	22.54
512	43	0.08	1354	2.37	561	98	0.17	4362	7.64	610	271	0.47	13141	23.02
513	38	0.07	1392	2.44	562	109	0.19	4471	7.83	611	278	0.49	13419	23.51
514	38	0.07	1430	2.50	563	93	0.16	4564	7.99	612	272	0.48	13691	23.98
515	32	0.06	1462	2.56	564	103	0.18	4667	8.18	613	283	0.50	13974	24.48
516	34	0.06	1496	2.62	565	130	0.23	4797	8.40	614	290	0.51	14264	24.99
517	30	0.05	1526	2.67	566	98	0.17	4895	8.57	615	284	0.50	14548	25.48
518	23	0.04	1549	2.71	567	116	0.20	5011	8.78	616	330	0.58	14878	26.06
519	42	0.07	1591	2.79	568	106	0.19	5117	8.96	617	327	0.57	15205	26.63
520	41	0.07	1632	2.86	569	139	0.24	5256	9.21	618	318	0.56	15523	27.19
521	43	0.08	1675	2.93	570	115	0.20	5371	9.41	619	301	0.53	15824	27.72
522	44	0.08	1719	3.01	571	128	0.22	5499	9.63	620	320	0.56	16144	28.28
523	44	0.08	1763	3.09	572	123	0.22	5622	9.85	621	327	0.57	16471	28.85
524	44	0.08	1807	3.17	573	116	0.20	5738	10.05	622	315	0.55	16786	29.40
525	37	0.06	1844	3.23	574	140	0.25	5878	10.30	623	362	0.63	17148	30.04
526	38	0.07	1882	3.30	575	131	0.23	6009	10.53	624	347	0.61	17495	30.65
527	53	0.09	1935	3.39	576	135	0.24	6144	10.76	625	347	0.61	17842	31.25
528	50	0.09	1985	3.48	577	159	0.28	6303	11.04	626	331	0.58	18173	31.83
529	52	0.09	2037	3.57	578	163	0.29	6466	11.33	627	351	0.61	18524	32.45
530	42	0.07	2079	3.64	579	151	0.26	6617	11.59	628	362	0.63	18886	33.08
531	48	0.08	2127	3.73	580	139	0.24	6756	11.83	629	327	0.57	19213	33.66
532	50	0.09	2177	3.81	581	172	0.30	6928	12.14	630	359	0.63	19572	34.28
533	53	0.09	2230	3.91	582	148	0.26	7076	12.40	631	401	0.70	19973	34.99
534	58	0.10	2288	4.01	583	180	0.32	7256	12.71	632	362	0.63	20335	35.62
535	54	0.09	2342	4.10	584	181	0.32	7437	13.03	633	377	0.66	20712	36.28
536	65	0.11	2407	4.22	585	184	0.32	7621	13.35	634	418	0.73	21130	37.01
537	61	0.11	2468	4.32	586	179	0.31	7800	13.66	635	383	0.67	21513	37.68
538	53	0.09	2521	4.42	587	164	0.29	7964	13.95	636	369	0.65	21882	38.33
539	57	0.10	2578	4.52	588	204	0.36	8168	14.31	637	356	0.62	22238	38.95
540	52	0.09	2630	4.61	589	167	0.29	8335	14.60	638	405	0.71	22643	39.66
541	63	0.11	2693	4.72	590	175	0.31	8510	14.91	639	414	0.73	23057	40.39
542	71	0.12	2764	4.84	591	215	0.38	8725	15.28	640	372	0.65	23429	41.04
543	71	0.12	2835	4.97	592	189	0.33	8914	15.61	641	430	0.75	23859	41.79
544	75	0.13	2910	5.10	593	205	0.36	9119	15.97	642	406	0.71	24265	42.51
545	81	0.14	2991	5.24	594	187	0.33	9306	16.30	643	390	0.68	24655	43.19
546	74	0.13	3065	5.37	595	211	0.37	9517	16.67	644	387	0.68	25042	43.87
547	80	0.14	3145	5.51	596	235	0.41	9752	17.08	645	453	0.79	25495	44.66
548	74	0.13	3219	5.64	597	215	0.38	9967	17.46	646	425	0.74	25920	45.40
549	98	0.17	3317	5.81	598	202	0.35	10169	17.81	647	427	0.75	26347	46.15
550	77	0.13	3394	5.95	599	227	0.40	10396	18.21	648	428	0.75	26775	46.90
551	82	0.14	3476	6.09	600	235	0.41	10631	18.62	649	385	0.67	27160	47.58
552	93	0.16	3569	6.25	601	254	0.44	10885	19.07	650	418	0.73	27578	48.31



**Table 179. Reading Grade 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. %
651	418	0.73	27996	49.04	700	292	0.51	47418	83.06	749	69	0.12	55950	98.01
652	417	0.73	28413	49.77	701	325	0.57	47743	83.63	750	57	0.10	56007	98.11
653	430	0.75	28843	50.52	702	265	0.46	48008	84.10	751	41	0.07	56048	98.18
654	453	0.79	29296	51.32	703	281	0.49	48289	84.59	752	55	0.10	56103	98.28
655	418	0.73	29714	52.05	704	281	0.49	48570	85.08	753	51	0.09	56154	98.37
656	434	0.76	30148	52.81	705	313	0.55	48883	85.63	754	71	0.12	56225	98.49
657	448	0.78	30596	53.60	706	275	0.48	49158	86.11	755	63	0.11	56288	98.60
658	403	0.71	30999	54.30	707	286	0.50	49444	86.61	756	28	0.05	56316	98.65
659	423	0.74	31422	55.04	708	248	0.43	49692	87.05	757	44	0.08	56360	98.73
660	392	0.69	31814	55.73	709	238	0.42	49930	87.46	758	40	0.07	56400	98.80
661	441	0.77	32255	56.50	710	266	0.47	50196	87.93	759	37	0.06	56437	98.86
662	414	0.73	32669	57.23	711	264	0.46	50460	88.39	760	34	0.06	56471	98.92
663	438	0.77	33107	57.99	712	245	0.43	50705	88.82	761	35	0.06	56506	98.98
664	443	0.78	33550	58.77	713	230	0.40	50935	89.22	762	35	0.06	56541	99.04
665	403	0.71	33953	59.48	714	226	0.40	51161	89.62	763	22	0.04	56563	99.08
666	421	0.74	34374	60.21	715	236	0.41	51397	90.03	764	34	0.06	56597	99.14
667	430	0.75	34804	60.97	716	229	0.40	51626	90.43	765	30	0.05	56627	99.19
668	430	0.75	35234	61.72	717	200	0.35	51826	90.78	766	26	0.05	56653	99.24
669	445	0.78	35679	62.50	718	204	0.36	52030	91.14	767	23	0.04	56676	99.28
670	420	0.74	36099	63.24	719	215	0.38	52245	91.52	768	25	0.04	56701	99.32
671	431	0.75	36530	63.99	720	212	0.37	52457	91.89	769	19	0.03	56720	99.36
672	421	0.74	36951	64.73	721	226	0.40	52683	92.29	770	23	0.04	56743	99.40
673	407	0.71	37358	65.44	722	177	0.31	52860	92.60	771	31	0.05	56774	99.45
674	432	0.76	37790	66.20	723	168	0.29	53028	92.89	772	18	0.03	56792	99.48
675	408	0.71	38198	66.91	724	164	0.29	53192	93.18	773	19	0.03	56811	99.52
676	415	0.73	38613	67.64	725	173	0.30	53365	93.48	774	16	0.03	56827	99.54
677	408	0.71	39021	68.35	726	153	0.27	53518	93.75	775	13	0.02	56840	99.57
678	403	0.71	39424	69.06	727	178	0.31	53696	94.06	776	5	0.01	56845	99.58
679	402	0.70	39826	69.76	728	176	0.31	53872	94.37	777	8	0.01	56853	99.59
680	381	0.67	40207	70.43	729	150	0.26	54022	94.63	778	14	0.02	56867	99.61
681	388	0.68	40595	71.11	730	125	0.22	54147	94.85	779	11	0.02	56878	99.63
682	393	0.69	40988	71.80	731	147	0.26	54294	95.11	780	11	0.02	56889	99.65
683	388	0.68	41376	72.48	732	129	0.23	54423	95.33	781	16	0.03	56905	99.68
684	401	0.70	41777	73.18	733	121	0.21	54544	95.55	782	17	0.03	56922	99.71
685	361	0.63	42138	73.81	734	113	0.20	54657	95.74	783	5	0.01	56927	99.72
686	371	0.65	42509	74.46	735	108	0.19	54765	95.93	784	11	0.02	56938	99.74
687	391	0.68	42900	75.15	736	86	0.15	54851	96.08	785	7	0.01	56945	99.75
688	379	0.66	43279	75.81	737	108	0.19	54959	96.27	786	11	0.02	56956	99.77
689	352	0.62	43631	76.43	738	104	0.18	55063	96.45	787	6	0.01	56962	99.78
690	381	0.67	44012	77.10	739	93	0.16	55156	96.62	788	4	0.01	56966	99.79
691	376	0.66	44388	77.76	740	97	0.17	55253	96.79	789	8	0.01	56974	99.80
692	344	0.60	44732	78.36	741	106	0.19	55359	96.97	790	6	0.01	56980	99.81
693	368	0.64	45100	79.00	742	89	0.16	55448	97.13	791	5	0.01	56985	99.82
694	322	0.56	45422	79.57	743	90	0.16	55538	97.29	792	5	0.01	56990	99.83
695	374	0.66	45796	80.22	744	80	0.14	55618	97.43	793	6	0.01	56996	99.84
696	348	0.61	46144	80.83	745	74	0.13	55692	97.56	794	9	0.02	57005	99.86
697	344	0.60	46488	81.43	746	70	0.12	55762	97.68	795	8	0.01	57013	99.87
698	317	0.56	46805	81.99	747	62	0.11	55824	97.79	796	4	0.01	57017	99.88
699	321	0.56	47126	82.55	748	57	0.10	55881	97.89	797	4	0.01	57021	99.88

**Table 179. Reading Grade 8 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %
798	4	0.01	57025	99.89
799	5	0.01	57030	99.90
800	2	0.00	57032	99.90
801	4	0.01	57036	99.91
802	3	0.01	57039	99.92
803	2	0.00	57041	99.92
804	3	0.01	57044	99.92
805	1	0.00	57045	99.93
806	5	0.01	57050	99.94
807	2	0.00	57052	99.94
808	2	0.00	57054	99.94
809	1	0.00	57055	99.94
810	2	0.00	57057	99.95
811	6	0.01	57063	99.96
812	2	0.00	57065	99.96
813	1	0.00	57066	99.96
814	2	0.00	57068	99.97
815	2	0.00	57070	99.97
817	2	0.00	57072	99.97
820	1	0.00	57073	99.98
823	1	0.00	57074	99.98
825	1	0.00	57075	99.98
826	1	0.00	57076	99.98
827	1	0.00	57077	99.98
830	1	0.00	57078	99.98
831	1	0.00	57079	99.99
832	1	0.00	57080	99.99
833	2	0.00	57082	99.99
834	1	0.00	57083	99.99
839	1	0.00	57084	99.99
842	1	0.00	57085	100.00
884	1	0.00	57086	100.00
927	1	0.00	57087	100.00

**Table 180. Writing Grade 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	26	0.05	26	0.05	328	2	0.00	103	0.18	381	12	0.02	357	0.63
259	1	0.00	27	0.05	330	1	0.00	104	0.18	382	10	0.02	367	0.64
263	1	0.00	28	0.05	331	5	0.01	109	0.19	383	10	0.02	377	0.66
266	1	0.00	29	0.05	332	1	0.00	110	0.19	384	16	0.03	393	0.69
270	2	0.00	31	0.05	334	2	0.00	112	0.20	385	8	0.01	401	0.70
271	1	0.00	32	0.06	336	4	0.01	116	0.20	386	15	0.03	416	0.73
275	2	0.00	34	0.06	337	5	0.01	121	0.21	387	10	0.02	426	0.75
277	1	0.00	35	0.06	338	2	0.00	123	0.22	388	12	0.02	438	0.77
279	1	0.00	36	0.06	339	4	0.01	127	0.22	389	19	0.03	457	0.80
280	2	0.00	38	0.07	340	2	0.00	129	0.23	390	18	0.03	475	0.83
281	1	0.00	39	0.07	341	6	0.01	135	0.24	391	16	0.03	491	0.86
282	1	0.00	40	0.07	342	2	0.00	137	0.24	392	15	0.03	506	0.89
284	1	0.00	41	0.07	343	4	0.01	141	0.25	393	13	0.02	519	0.91
285	4	0.01	45	0.08	344	4	0.01	145	0.25	394	14	0.02	533	0.93
287	2	0.00	47	0.08	346	4	0.01	149	0.26	395	14	0.02	547	0.96
288	1	0.00	48	0.08	347	7	0.01	156	0.27	396	5	0.01	552	0.97
289	2	0.00	50	0.09	348	1	0.00	157	0.27	397	10	0.02	562	0.98
290	1	0.00	51	0.09	349	2	0.00	159	0.28	398	22	0.04	584	1.02
291	1	0.00	52	0.09	350	2	0.00	161	0.28	399	25	0.04	609	1.07
292	1	0.00	53	0.09	351	2	0.00	163	0.29	400	16	0.03	625	1.09
293	3	0.01	56	0.10	352	3	0.01	166	0.29	401	20	0.04	645	1.13
295	3	0.01	59	0.10	353	4	0.01	170	0.30	402	19	0.03	664	1.16
296	1	0.00	60	0.11	354	5	0.01	175	0.31	403	23	0.04	687	1.20
297	1	0.00	61	0.11	355	4	0.01	179	0.31	404	13	0.02	700	1.23
298	2	0.00	63	0.11	356	4	0.01	183	0.32	405	22	0.04	722	1.26
300	2	0.00	65	0.11	357	4	0.01	187	0.33	406	23	0.04	745	1.30
304	2	0.00	67	0.12	358	2	0.00	189	0.33	407	28	0.05	773	1.35
305	2	0.00	69	0.12	359	7	0.01	196	0.34	408	28	0.05	801	1.40
306	1	0.00	70	0.12	360	4	0.01	200	0.35	409	30	0.05	831	1.46
307	1	0.00	71	0.12	361	3	0.01	203	0.36	410	23	0.04	854	1.50
308	2	0.00	73	0.13	362	6	0.01	209	0.37	411	26	0.05	880	1.54
309	2	0.00	75	0.13	363	5	0.01	214	0.37	412	35	0.06	915	1.60
310	1	0.00	76	0.13	364	7	0.01	221	0.39	413	32	0.06	947	1.66
311	1	0.00	77	0.13	365	9	0.02	230	0.40	414	23	0.04	970	1.70
312	2	0.00	79	0.14	366	5	0.01	235	0.41	415	38	0.07	1008	1.77
313	1	0.00	80	0.14	367	10	0.02	245	0.43	416	31	0.05	1039	1.82
314	3	0.01	83	0.15	368	7	0.01	252	0.44	417	43	0.08	1082	1.89
315	1	0.00	84	0.15	369	7	0.01	259	0.45	418	36	0.06	1118	1.96
316	2	0.00	86	0.15	370	7	0.01	266	0.47	419	40	0.07	1158	2.03
317	3	0.01	89	0.16	371	5	0.01	271	0.47	420	37	0.06	1195	2.09
318	1	0.00	90	0.16	372	13	0.02	284	0.50	421	27	0.05	1222	2.14
319	1	0.00	91	0.16	373	10	0.02	294	0.51	422	45	0.08	1267	2.22
320	1	0.00	92	0.16	374	5	0.01	299	0.52	423	39	0.07	1306	2.29
321	1	0.00	93	0.16	375	8	0.01	307	0.54	424	41	0.07	1347	2.36
322	1	0.00	94	0.16	376	5	0.01	312	0.55	425	38	0.07	1385	2.43
323	1	0.00	95	0.17	377	5	0.01	317	0.56	426	43	0.08	1428	2.50
325	1	0.00	96	0.17	378	11	0.02	328	0.57	427	46	0.08	1474	2.58
326	3	0.01	99	0.17	379	9	0.02	337	0.59	428	50	0.09	1524	2.67
327	2	0.00	101	0.18	380	8	0.01	345	0.60	429	51	0.09	1575	2.76

**Table 180. Writing Grade 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. %
430	48	0.08	1623	2.84	479	146	0.26	6326	11.08	528	303	0.53	17574	30.78
431	50	0.09	1673	2.93	480	183	0.32	6509	11.40	529	304	0.53	17878	31.31
432	47	0.08	1720	3.01	481	172	0.30	6681	11.70	530	331	0.58	18209	31.89
433	63	0.11	1783	3.12	482	163	0.29	6844	11.99	531	297	0.52	18506	32.41
434	54	0.09	1837	3.22	483	167	0.29	7011	12.28	532	328	0.57	18834	32.98
435	65	0.11	1902	3.33	484	163	0.29	7174	12.56	533	301	0.53	19135	33.51
436	56	0.10	1958	3.43	485	155	0.27	7329	12.84	534	333	0.58	19468	34.09
437	55	0.10	2013	3.53	486	169	0.30	7498	13.13	535	327	0.57	19795	34.67
438	63	0.11	2076	3.64	487	175	0.31	7673	13.44	536	315	0.55	20110	35.22
439	58	0.10	2134	3.74	488	168	0.29	7841	13.73	537	358	0.63	20468	35.85
440	57	0.10	2191	3.84	489	163	0.29	8004	14.02	538	308	0.54	20776	36.39
441	75	0.13	2266	3.97	490	194	0.34	8198	14.36	539	318	0.56	21094	36.94
442	67	0.12	2333	4.09	491	194	0.34	8392	14.70	540	378	0.66	21472	37.60
443	73	0.13	2406	4.21	492	187	0.33	8579	15.02	541	356	0.62	21828	38.23
444	71	0.12	2477	4.34	493	189	0.33	8768	15.36	542	311	0.54	22139	38.77
445	73	0.13	2550	4.47	494	189	0.33	8957	15.69	543	288	0.50	22427	39.28
446	85	0.15	2635	4.61	495	198	0.35	9155	16.03	544	334	0.58	22761	39.86
447	88	0.15	2723	4.77	496	216	0.38	9371	16.41	545	351	0.61	23112	40.48
448	80	0.14	2803	4.91	497	217	0.38	9588	16.79	546	372	0.65	23484	41.13
449	83	0.15	2886	5.05	498	201	0.35	9789	17.14	547	343	0.60	23827	41.73
450	89	0.16	2975	5.21	499	225	0.39	10014	17.54	548	363	0.64	24190	42.36
451	78	0.14	3053	5.35	500	234	0.41	10248	17.95	549	360	0.63	24550	42.99
452	105	0.18	3158	5.53	501	219	0.38	10467	18.33	550	353	0.62	24903	43.61
453	70	0.12	3228	5.65	502	241	0.42	10708	18.75	551	296	0.52	25199	44.13
454	97	0.17	3325	5.82	503	228	0.40	10936	19.15	552	380	0.67	25579	44.80
455	96	0.17	3421	5.99	504	230	0.40	11166	19.56	553	352	0.62	25931	45.41
456	93	0.16	3514	6.15	505	215	0.38	11381	19.93	554	395	0.69	26326	46.11
457	100	0.18	3614	6.33	506	220	0.39	11601	20.32	555	400	0.70	26726	46.81
458	107	0.19	3721	6.52	507	224	0.39	11825	20.71	556	399	0.70	27125	47.50
459	83	0.15	3804	6.66	508	233	0.41	12058	21.12	557	392	0.69	27517	48.19
460	100	0.18	3904	6.84	509	245	0.43	12303	21.55	558	362	0.63	27879	48.82
461	104	0.18	4008	7.02	510	255	0.45	12558	21.99	559	356	0.62	28235	49.45
462	113	0.20	4121	7.22	511	270	0.47	12828	22.47	560	341	0.60	28576	50.05
463	112	0.20	4233	7.41	512	258	0.45	13086	22.92	561	391	0.68	28967	50.73
464	122	0.21	4355	7.63	513	274	0.48	13360	23.40	562	374	0.65	29341	51.39
465	122	0.21	4477	7.84	514	246	0.43	13606	23.83	563	329	0.58	29670	51.96
466	116	0.20	4593	8.04	515	248	0.43	13854	24.26	564	392	0.69	30062	52.65
467	130	0.23	4723	8.27	516	279	0.49	14133	24.75	565	364	0.64	30426	53.29
468	138	0.24	4861	8.51	517	271	0.47	14404	25.23	566	356	0.62	30782	53.91
469	125	0.22	4986	8.73	518	253	0.44	14657	25.67	567	356	0.62	31138	54.53
470	119	0.21	5105	8.94	519	276	0.48	14933	26.15	568	367	0.64	31505	55.18
471	119	0.21	5224	9.15	520	273	0.48	15206	26.63	569	357	0.63	31862	55.80
472	136	0.24	5360	9.39	521	284	0.50	15490	27.13	570	359	0.63	32221	56.43
473	146	0.26	5506	9.64	522	292	0.51	15782	27.64	571	324	0.57	32545	57.00
474	147	0.26	5653	9.90	523	271	0.47	16053	28.11	572	332	0.58	32877	57.58
475	107	0.19	5760	10.09	524	305	0.53	16358	28.65	573	349	0.61	33226	58.19
476	130	0.23	5890	10.32	525	297	0.52	16655	29.17	574	361	0.63	33587	58.82
477	136	0.24	6026	10.55	526	286	0.50	16941	29.67	575	344	0.60	33931	59.42
478	154	0.27	6180	10.82	527	330	0.58	17271	30.25	576	307	0.54	34238	59.96

**Table 180. Writing Grade 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. %
577	309	0.54	34547	60.50	626	198	0.35	48274	84.54	675	65	0.11	54692	95.78
578	339	0.59	34886	61.10	627	194	0.34	48468	84.88	676	48	0.08	54740	95.87
579	325	0.57	35211	61.67	628	214	0.37	48682	85.26	677	63	0.11	54803	95.98
580	325	0.57	35536	62.23	629	183	0.32	48865	85.58	678	73	0.13	54876	96.11
581	355	0.62	35891	62.86	630	204	0.36	49069	85.94	679	45	0.08	54921	96.18
582	346	0.61	36237	63.46	631	179	0.31	49248	86.25	680	67	0.12	54988	96.30
583	331	0.58	36568	64.04	632	190	0.33	49438	86.58	681	64	0.11	55052	96.41
584	309	0.54	36877	64.58	633	183	0.32	49621	86.90	682	57	0.10	55109	96.51
585	347	0.61	37224	65.19	634	192	0.34	49813	87.24	683	68	0.12	55177	96.63
586	316	0.55	37540	65.74	635	176	0.31	49989	87.55	684	41	0.07	55218	96.70
587	333	0.58	37873	66.33	636	146	0.26	50135	87.80	685	57	0.10	55275	96.80
588	324	0.57	38197	66.89	637	157	0.27	50292	88.08	686	51	0.09	55326	96.89
589	318	0.56	38515	67.45	638	156	0.27	50448	88.35	687	41	0.07	55367	96.96
590	308	0.54	38823	67.99	639	158	0.28	50606	88.63	688	59	0.10	55426	97.07
591	342	0.60	39165	68.59	640	173	0.30	50779	88.93	689	36	0.06	55462	97.13
592	295	0.52	39460	69.11	641	136	0.24	50915	89.17	690	47	0.08	55509	97.21
593	300	0.53	39760	69.63	642	172	0.30	51087	89.47	691	37	0.06	55546	97.28
594	359	0.63	40119	70.26	643	150	0.26	51237	89.73	692	32	0.06	55578	97.33
595	299	0.52	40418	70.78	644	168	0.29	51405	90.03	693	41	0.07	55619	97.41
596	281	0.49	40699	71.28	645	160	0.28	51565	90.31	694	44	0.08	55663	97.48
597	295	0.52	40994	71.79	646	142	0.25	51707	90.56	695	40	0.07	55703	97.55
598	304	0.53	41298	72.33	647	124	0.22	51831	90.77	696	40	0.07	55743	97.62
599	299	0.52	41597	72.85	648	150	0.26	51981	91.04	697	37	0.06	55780	97.69
600	292	0.51	41889	73.36	649	128	0.22	52109	91.26	698	33	0.06	55813	97.75
601	282	0.49	42171	73.85	650	108	0.19	52217	91.45	699	30	0.05	55843	97.80
602	283	0.50	42454	74.35	651	105	0.18	52322	91.63	700	43	0.08	55886	97.87
603	272	0.48	42726	74.83	652	135	0.24	52457	91.87	701	27	0.05	55913	97.92
604	241	0.42	42967	75.25	653	111	0.19	52568	92.06	702	33	0.06	55946	97.98
605	267	0.47	43234	75.72	654	132	0.23	52700	92.29	703	23	0.04	55969	98.02
606	274	0.48	43508	76.20	655	113	0.20	52813	92.49	704	30	0.05	55999	98.07
607	265	0.46	43773	76.66	656	137	0.24	52950	92.73	705	37	0.06	56036	98.14
608	280	0.49	44053	77.15	657	135	0.24	53085	92.97	706	27	0.05	56063	98.18
609	266	0.47	44319	77.62	658	99	0.17	53184	93.14	707	25	0.04	56088	98.23
610	259	0.45	44578	78.07	659	105	0.18	53289	93.33	708	22	0.04	56110	98.27
611	256	0.45	44834	78.52	660	104	0.18	53393	93.51	709	28	0.05	56138	98.32
612	279	0.49	45113	79.01	661	95	0.17	53488	93.67	710	36	0.06	56174	98.38
613	231	0.40	45344	79.41	662	114	0.20	53602	93.87	711	27	0.05	56201	98.43
614	261	0.46	45605	79.87	663	76	0.13	53678	94.01	712	12	0.02	56213	98.45
615	238	0.42	45843	80.29	664	99	0.17	53777	94.18	713	24	0.04	56237	98.49
616	234	0.41	46077	80.70	665	94	0.16	53871	94.35	714	27	0.05	56264	98.54
617	206	0.36	46283	81.06	666	102	0.18	53973	94.52	715	28	0.05	56292	98.58
618	228	0.40	46511	81.46	667	75	0.13	54048	94.65	716	34	0.06	56326	98.64
619	202	0.35	46713	81.81	668	98	0.17	54146	94.83	717	13	0.02	56339	98.67
620	237	0.42	46950	82.22	669	79	0.14	54225	94.96	718	18	0.03	56357	98.70
621	221	0.39	47171	82.61	670	99	0.17	54324	95.14	719	17	0.03	56374	98.73
622	201	0.35	47372	82.96	671	80	0.14	54404	95.28	720	36	0.06	56410	98.79
623	240	0.42	47612	83.38	672	82	0.14	54486	95.42	721	11	0.02	56421	98.81
624	246	0.43	47858	83.81	673	56	0.10	54542	95.52	722	24	0.04	56445	98.85
625	218	0.38	48076	84.20	674	85	0.15	54627	95.67	723	14	0.02	56459	98.88

**Table 180. Writing Grade 8 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
724	21	0.04	56480	98.91	775	3	0.01	56931	99.70
725	11	0.02	56491	98.93	776	11	0.02	56942	99.72
726	17	0.03	56508	98.96	777	3	0.01	56945	99.73
727	9	0.02	56517	98.98	778	5	0.01	56950	99.74
728	8	0.01	56525	98.99	779	3	0.01	56953	99.74
729	18	0.03	56543	99.02	780	6	0.01	56959	99.75
730	16	0.03	56559	99.05	781	1	0.00	56960	99.75
731	11	0.02	56570	99.07	782	1	0.00	56961	99.76
732	7	0.01	56577	99.08	783	5	0.01	56966	99.77
733	11	0.02	56588	99.10	784	3	0.01	56969	99.77
734	12	0.02	56600	99.12	785	1	0.00	56970	99.77
735	6	0.01	56606	99.13	786	7	0.01	56977	99.78
736	15	0.03	56621	99.16	787	4	0.01	56981	99.79
737	15	0.03	56636	99.19	788	1	0.00	56982	99.79
738	4	0.01	56640	99.19	790	3	0.01	56985	99.80
739	11	0.02	56651	99.21	791	2	0.00	56987	99.80
740	6	0.01	56657	99.22	792	1	0.00	56988	99.80
741	24	0.04	56681	99.27	793	7	0.01	56995	99.82
742	13	0.02	56694	99.29	794	3	0.01	56998	99.82
743	9	0.02	56703	99.30	795	1	0.00	56999	99.82
744	10	0.02	56713	99.32	796	1	0.00	57000	99.82
745	14	0.02	56727	99.35	797	5	0.01	57005	99.83
746	6	0.01	56733	99.36	798	2	0.00	57007	99.84
747	20	0.04	56753	99.39	800	1	0.00	57008	99.84
748	8	0.01	56761	99.41	801	3	0.01	57011	99.84
749	8	0.01	56769	99.42	802	1	0.00	57012	99.85
750	9	0.02	56778	99.44	805	1	0.00	57013	99.85
751	4	0.01	56782	99.44	806	3	0.01	57016	99.85
752	13	0.02	56795	99.47	808	2	0.00	57018	99.86
753	6	0.01	56801	99.48	809	3	0.01	57021	99.86
754	6	0.01	56807	99.49	810	3	0.01	57024	99.87
755	5	0.01	56812	99.50	812	3	0.01	57027	99.87
756	8	0.01	56820	99.51	815	1	0.00	57028	99.87
757	5	0.01	56825	99.52	816	11	0.02	57039	99.89
758	4	0.01	56829	99.53	817	4	0.01	57043	99.90
759	15	0.03	56844	99.55	821	4	0.01	57047	99.91
760	9	0.02	56853	99.57	824	1	0.00	57048	99.91
762	5	0.01	56858	99.58	827	2	0.00	57050	99.91
763	6	0.01	56864	99.59	829	2	0.00	57052	99.92
764	6	0.01	56870	99.60	830	1	0.00	57053	99.92
765	7	0.01	56877	99.61	832	2	0.00	57055	99.92
766	10	0.02	56887	99.63	833	2	0.00	57057	99.92
767	10	0.02	56897	99.64	835	1	0.00	57058	99.93
769	6	0.01	56903	99.65	840	7	0.01	57065	99.94
770	2	0.00	56905	99.66	850	5	0.01	57070	99.95
771	5	0.01	56910	99.67	863	1	0.00	57071	99.95
772	7	0.01	56917	99.68	880	6	0.01	57077	99.96
773	3	0.01	56920	99.68	910	23	0.04	57100	100.00
774	8	0.01	56928	99.70					

**Table 181. Mathematics Grade 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	216	0.38	216	0.38	376	6	0.01	354	0.62	425	16	0.03	978	1.71
311	1	0.00	217	0.38	377	6	0.01	360	0.63	426	22	0.04	1000	1.75
315	2	0.00	219	0.38	378	7	0.01	367	0.64	427	33	0.06	1033	1.81
317	1	0.00	220	0.39	379	8	0.01	375	0.66	428	30	0.05	1063	1.86
318	1	0.00	221	0.39	380	5	0.01	380	0.67	429	25	0.04	1088	1.90
319	1	0.00	222	0.39	381	5	0.01	385	0.67	430	23	0.04	1111	1.94
320	1	0.00	223	0.39	382	3	0.01	388	0.68	431	21	0.04	1132	1.98
321	2	0.00	225	0.39	383	5	0.01	393	0.69	432	39	0.07	1171	2.05
323	2	0.00	227	0.40	384	12	0.02	405	0.71	433	39	0.07	1210	2.12
324	2	0.00	229	0.40	385	5	0.01	410	0.72	434	35	0.06	1245	2.18
325	2	0.00	231	0.40	386	7	0.01	417	0.73	435	23	0.04	1268	2.22
326	1	0.00	232	0.41	387	7	0.01	424	0.74	436	31	0.05	1299	2.27
327	2	0.00	234	0.41	388	8	0.01	432	0.76	437	21	0.04	1320	2.31
329	3	0.01	237	0.41	389	11	0.02	443	0.78	438	44	0.08	1364	2.39
331	4	0.01	241	0.42	390	6	0.01	449	0.79	439	30	0.05	1394	2.44
334	1	0.00	242	0.42	391	8	0.01	457	0.80	440	33	0.06	1427	2.50
335	3	0.01	245	0.43	392	7	0.01	464	0.81	441	44	0.08	1471	2.57
337	2	0.00	247	0.43	393	13	0.02	477	0.83	442	44	0.08	1515	2.65
339	1	0.00	248	0.43	394	13	0.02	490	0.86	443	44	0.08	1559	2.73
340	1	0.00	249	0.44	395	8	0.01	498	0.87	444	26	0.05	1585	2.77
342	1	0.00	250	0.44	396	14	0.02	512	0.90	445	56	0.10	1641	2.87
343	4	0.01	254	0.44	397	8	0.01	520	0.91	446	46	0.08	1687	2.95
345	2	0.00	256	0.45	398	14	0.02	534	0.93	447	55	0.10	1742	3.05
346	3	0.01	259	0.45	399	7	0.01	541	0.95	448	52	0.09	1794	3.14
348	1	0.00	260	0.46	400	15	0.03	556	0.97	449	57	0.10	1851	3.24
349	2	0.00	262	0.46	401	9	0.02	565	0.99	450	35	0.06	1886	3.30
350	2	0.00	264	0.46	402	13	0.02	578	1.01	451	49	0.09	1935	3.39
351	2	0.00	266	0.47	403	10	0.02	588	1.03	452	55	0.10	1990	3.48
352	4	0.01	270	0.47	404	15	0.03	603	1.06	453	48	0.08	2038	3.57
353	3	0.01	273	0.48	405	24	0.04	627	1.10	454	43	0.08	2081	3.64
354	1	0.00	274	0.48	406	9	0.02	636	1.11	455	48	0.08	2129	3.73
355	2	0.00	276	0.48	407	19	0.03	655	1.15	456	75	0.13	2204	3.86
356	1	0.00	277	0.48	408	16	0.03	671	1.17	457	61	0.11	2265	3.96
357	7	0.01	284	0.50	409	17	0.03	688	1.20	458	62	0.11	2327	4.07
359	4	0.01	288	0.50	410	13	0.02	701	1.23	459	54	0.09	2381	4.17
360	3	0.01	291	0.51	411	14	0.02	715	1.25	460	49	0.09	2430	4.25
361	3	0.01	294	0.51	412	14	0.02	729	1.28	461	63	0.11	2493	4.36
363	5	0.01	299	0.52	413	17	0.03	746	1.31	462	79	0.14	2572	4.50
365	2	0.00	301	0.53	414	19	0.03	765	1.34	463	53	0.09	2625	4.59
366	5	0.01	306	0.54	415	14	0.02	779	1.36	464	76	0.13	2701	4.73
367	5	0.01	311	0.54	416	21	0.04	800	1.40	465	76	0.13	2777	4.86
368	4	0.01	315	0.55	417	18	0.03	818	1.43	466	78	0.14	2855	5.00
369	1	0.00	316	0.55	418	19	0.03	837	1.46	467	82	0.14	2937	5.14
370	5	0.01	321	0.56	419	19	0.03	856	1.50	468	80	0.14	3017	5.28
371	4	0.01	325	0.57	420	14	0.02	870	1.52	469	87	0.15	3104	5.43
372	5	0.01	330	0.58	421	22	0.04	892	1.56	470	92	0.16	3196	5.59
373	6	0.01	336	0.59	422	23	0.04	915	1.60	471	88	0.15	3284	5.75
374	4	0.01	340	0.60	423	24	0.04	939	1.64	472	77	0.13	3361	5.88
375	8	0.01	348	0.61	424	23	0.04	962	1.68	473	108	0.19	3469	6.07

**Table 181. Mathematics Grade 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. %
474	94	0.16	3563	6.24	523	224	0.39	11407	19.96	572	344	0.60	26900	47.08
475	101	0.18	3664	6.41	524	269	0.47	11676	20.43	573	392	0.69	27292	47.77
476	94	0.16	3758	6.58	525	240	0.42	11916	20.85	574	368	0.64	27660	48.41
477	101	0.18	3859	6.75	526	240	0.42	12156	21.27	575	353	0.62	28013	49.03
478	112	0.20	3971	6.95	527	271	0.47	12427	21.75	576	382	0.67	28395	49.70
479	99	0.17	4070	7.12	528	256	0.45	12683	22.20	577	351	0.61	28746	50.31
480	104	0.18	4174	7.31	529	260	0.46	12943	22.65	578	367	0.64	29113	50.95
481	93	0.16	4267	7.47	530	276	0.48	13219	23.14	579	373	0.65	29486	51.60
482	117	0.20	4384	7.67	531	281	0.49	13500	23.63	580	383	0.67	29869	52.28
483	123	0.22	4507	7.89	532	302	0.53	13802	24.16	581	385	0.67	30254	52.95
484	112	0.20	4619	8.08	533	308	0.54	14110	24.69	582	398	0.70	30652	53.65
485	101	0.18	4720	8.26	534	248	0.43	14358	25.13	583	357	0.62	31009	54.27
486	115	0.20	4835	8.46	535	271	0.47	14629	25.60	584	380	0.67	31389	54.94
487	115	0.20	4950	8.66	536	282	0.49	14911	26.10	585	402	0.70	31791	55.64
488	112	0.20	5062	8.86	537	272	0.48	15183	26.57	586	394	0.69	32185	56.33
489	152	0.27	5214	9.13	538	288	0.50	15471	27.08	587	372	0.65	32557	56.98
490	137	0.24	5351	9.37	539	304	0.53	15775	27.61	588	369	0.65	32926	57.63
491	149	0.26	5500	9.63	540	299	0.52	16074	28.13	589	368	0.64	33294	58.27
492	131	0.23	5631	9.86	541	304	0.53	16378	28.66	590	391	0.68	33685	58.95
493	159	0.28	5790	10.13	542	308	0.54	16686	29.20	591	379	0.66	34064	59.62
494	147	0.26	5937	10.39	543	292	0.51	16978	29.71	592	370	0.65	34434	60.26
495	150	0.26	6087	10.65	544	295	0.52	17273	30.23	593	403	0.71	34837	60.97
496	176	0.31	6263	10.96	545	306	0.54	17579	30.77	594	380	0.67	35217	61.63
497	150	0.26	6413	11.22	546	328	0.57	17907	31.34	595	367	0.64	35584	62.28
498	148	0.26	6561	11.48	547	316	0.55	18223	31.89	596	355	0.62	35939	62.90
499	130	0.23	6691	11.71	548	340	0.60	18563	32.49	597	358	0.63	36297	63.53
500	160	0.28	6851	11.99	549	322	0.56	18885	33.05	598	403	0.71	36700	64.23
501	168	0.29	7019	12.28	550	362	0.63	19247	33.69	599	326	0.57	37026	64.80
502	142	0.25	7161	12.53	551	344	0.60	19591	34.29	600	348	0.61	37374	65.41
503	159	0.28	7320	12.81	552	344	0.60	19935	34.89	601	334	0.58	37708	65.99
504	163	0.29	7483	13.10	553	345	0.60	20280	35.49	602	428	0.75	38136	66.74
505	162	0.28	7645	13.38	554	317	0.55	20597	36.05	603	355	0.62	38491	67.36
506	169	0.30	7814	13.68	555	321	0.56	20918	36.61	604	374	0.65	38865	68.02
507	185	0.32	7999	14.00	556	352	0.62	21270	37.23	605	359	0.63	39224	68.65
508	176	0.31	8175	14.31	557	362	0.63	21632	37.86	606	367	0.64	39591	69.29
509	212	0.37	8387	14.68	558	335	0.59	21967	38.45	607	378	0.66	39969	69.95
510	209	0.37	8596	15.04	559	317	0.55	22284	39.00	608	376	0.66	40345	70.61
511	198	0.35	8794	15.39	560	363	0.64	22647	39.64	609	367	0.64	40712	71.25
512	205	0.36	8999	15.75	561	356	0.62	23003	40.26	610	327	0.57	41039	71.82
513	201	0.35	9200	16.10	562	351	0.61	23354	40.87	611	323	0.57	41362	72.39
514	216	0.38	9416	16.48	563	369	0.65	23723	41.52	612	323	0.57	41685	72.95
515	191	0.33	9607	16.81	564	354	0.62	24077	42.14	613	347	0.61	42032	73.56
516	204	0.36	9811	17.17	565	354	0.62	24431	42.76	614	292	0.51	42324	74.07
517	200	0.35	10011	17.52	566	356	0.62	24787	43.38	615	322	0.56	42646	74.64
518	203	0.36	10214	17.88	567	345	0.60	25132	43.98	616	311	0.54	42957	75.18
519	222	0.39	10436	18.26	568	326	0.57	25458	44.56	617	318	0.56	43275	75.74
520	248	0.43	10684	18.70	569	362	0.63	25820	45.19	618	279	0.49	43554	76.23
521	264	0.46	10948	19.16	570	368	0.64	26188	45.83	619	339	0.59	43893	76.82
522	235	0.41	11183	19.57	571	368	0.64	26556	46.48	620	331	0.58	44224	77.40



**Table 181. Mathematics Grade 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. %
621	327	0.57	44551	77.97	670	111	0.19	54690	95.72	719	11	0.02	57007	99.77
622	306	0.54	44857	78.51	671	128	0.22	54818	95.94	720	7	0.01	57014	99.78
623	299	0.52	45156	79.03	672	102	0.18	54920	96.12	721	7	0.01	57021	99.80
624	281	0.49	45437	79.52	673	102	0.18	55022	96.30	722	14	0.02	57035	99.82
625	283	0.50	45720	80.02	674	86	0.15	55108	96.45	723	7	0.01	57042	99.83
626	312	0.55	46032	80.56	675	115	0.20	55223	96.65	724	4	0.01	57046	99.84
627	250	0.44	46282	81.00	676	95	0.17	55318	96.81	725	5	0.01	57051	99.85
628	263	0.46	46545	81.46	677	85	0.15	55403	96.96	726	5	0.01	57056	99.86
629	267	0.47	46812	81.93	678	95	0.17	55498	97.13	727	2	0.00	57058	99.86
630	280	0.49	47092	82.42	679	77	0.13	55575	97.26	728	6	0.01	57064	99.87
631	248	0.43	47340	82.85	680	85	0.15	55660	97.41	729	8	0.01	57072	99.88
632	280	0.49	47620	83.34	681	90	0.16	55750	97.57	730	3	0.01	57075	99.89
633	268	0.47	47888	83.81	682	72	0.13	55822	97.70	731	6	0.01	57081	99.90
634	253	0.44	48141	84.25	683	75	0.13	55897	97.83	732	1	0.00	57082	99.90
635	273	0.48	48414	84.73	684	77	0.13	55974	97.96	733	4	0.01	57086	99.91
636	239	0.42	48653	85.15	685	59	0.10	56033	98.07	734	6	0.01	57092	99.92
637	249	0.44	48902	85.59	686	54	0.09	56087	98.16	735	1	0.00	57093	99.92
638	233	0.41	49135	85.99	687	66	0.12	56153	98.28	736	2	0.00	57095	99.92
639	218	0.38	49353	86.38	688	48	0.08	56201	98.36	737	4	0.01	57099	99.93
640	222	0.39	49575	86.76	689	47	0.08	56248	98.44	738	2	0.00	57101	99.94
641	219	0.38	49794	87.15	690	48	0.08	56296	98.53	739	1	0.00	57102	99.94
642	231	0.40	50025	87.55	691	48	0.08	56344	98.61	740	4	0.01	57106	99.94
643	211	0.37	50236	87.92	692	57	0.10	56401	98.71	741	1	0.00	57107	99.95
644	202	0.35	50438	88.27	693	50	0.09	56451	98.80	742	2	0.00	57109	99.95
645	214	0.37	50652	88.65	694	65	0.11	56516	98.91	744	3	0.01	57112	99.95
646	219	0.38	50871	89.03	695	36	0.06	56552	98.97	746	1	0.00	57113	99.96
647	211	0.37	51082	89.40	696	38	0.07	56590	99.04	747	1	0.00	57114	99.96
648	205	0.36	51287	89.76	697	27	0.05	56617	99.09	748	1	0.00	57115	99.96
649	166	0.29	51453	90.05	698	31	0.05	56648	99.14	749	3	0.01	57118	99.96
650	193	0.34	51646	90.39	699	28	0.05	56676	99.19	750	1	0.00	57119	99.97
651	188	0.33	51834	90.72	700	30	0.05	56706	99.24	752	1	0.00	57120	99.97
652	179	0.31	52013	91.03	701	23	0.04	56729	99.28	755	1	0.00	57121	99.97
653	183	0.32	52196	91.35	702	27	0.05	56756	99.33	756	1	0.00	57122	99.97
654	191	0.33	52387	91.69	703	30	0.05	56786	99.38	759	2	0.00	57124	99.98
655	186	0.33	52573	92.01	704	26	0.05	56812	99.43	761	3	0.01	57127	99.98
656	176	0.31	52749	92.32	705	27	0.05	56839	99.48	767	1	0.00	57128	99.98
657	175	0.31	52924	92.62	706	21	0.04	56860	99.51	768	1	0.00	57129	99.98
658	167	0.29	53091	92.92	707	16	0.03	56876	99.54	769	1	0.00	57130	99.99
659	156	0.27	53247	93.19	708	17	0.03	56893	99.57	773	1	0.00	57131	99.99
660	170	0.30	53417	93.49	709	11	0.02	56904	99.59	787	1	0.00	57132	99.99
661	153	0.27	53570	93.76	710	8	0.01	56912	99.60	790	1	0.00	57133	99.99
662	142	0.25	53712	94.00	711	11	0.02	56923	99.62	791	1	0.00	57134	99.99
663	133	0.23	53845	94.24	712	11	0.02	56934	99.64	799	1	0.00	57135	99.99
664	130	0.23	53975	94.46	713	5	0.01	56939	99.65	890	3	0.01	57138	100.00
665	141	0.25	54116	94.71	714	12	0.02	56951	99.67					
666	123	0.22	54239	94.93	715	10	0.02	56961	99.69					
667	94	0.16	54333	95.09	716	15	0.03	56976	99.72					
668	121	0.21	54454	95.30	717	10	0.02	56986	99.73					
669	125	0.22	54579	95.52	718	10	0.02	56996	99.75					

**Table 182. Science Grade 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	437	0.77	437	0.77	349	23	0.04	1189	2.08	398	87	0.15	3886	6.81
301	5	0.01	442	0.77	350	28	0.05	1217	2.13	399	81	0.14	3967	6.95
302	5	0.01	447	0.78	351	31	0.05	1248	2.19	400	98	0.17	4065	7.12
303	9	0.02	456	0.80	352	20	0.04	1268	2.22	401	110	0.19	4175	7.31
304	12	0.02	468	0.82	353	30	0.05	1298	2.27	402	94	0.16	4269	7.48
305	9	0.02	477	0.84	354	26	0.05	1324	2.32	403	100	0.18	4369	7.65
306	5	0.01	482	0.84	355	26	0.05	1350	2.36	404	85	0.15	4454	7.80
307	5	0.01	487	0.85	356	29	0.05	1379	2.42	405	114	0.20	4568	8.00
308	7	0.01	494	0.87	357	42	0.07	1421	2.49	406	116	0.20	4684	8.21
309	9	0.02	503	0.88	358	38	0.07	1459	2.56	407	113	0.20	4797	8.40
310	15	0.03	518	0.91	359	40	0.07	1499	2.63	408	133	0.23	4930	8.64
311	14	0.02	532	0.93	360	44	0.08	1543	2.70	409	113	0.20	5043	8.83
312	8	0.01	540	0.95	361	25	0.04	1568	2.75	410	100	0.18	5143	9.01
313	12	0.02	552	0.97	362	37	0.06	1605	2.81	411	124	0.22	5267	9.23
314	8	0.01	560	0.98	363	40	0.07	1645	2.88	412	98	0.17	5365	9.40
315	11	0.02	571	1.00	364	47	0.08	1692	2.96	413	108	0.19	5473	9.59
316	10	0.02	581	1.02	365	36	0.06	1728	3.03	414	114	0.20	5587	9.79
317	13	0.02	594	1.04	366	40	0.07	1768	3.10	415	128	0.22	5715	10.01
318	12	0.02	606	1.06	367	47	0.08	1815	3.18	416	122	0.21	5837	10.23
319	13	0.02	619	1.08	368	43	0.08	1858	3.25	417	106	0.19	5943	10.41
320	14	0.02	633	1.11	369	42	0.07	1900	3.33	418	140	0.25	6083	10.66
321	14	0.02	647	1.13	370	51	0.09	1951	3.42	419	139	0.24	6222	10.90
322	8	0.01	655	1.15	371	69	0.12	2020	3.54	420	138	0.24	6360	11.14
323	9	0.02	664	1.16	372	54	0.09	2074	3.63	421	128	0.22	6488	11.37
324	15	0.03	679	1.19	373	48	0.08	2122	3.72	422	147	0.26	6635	11.62
325	15	0.03	694	1.22	374	46	0.08	2168	3.80	423	130	0.23	6765	11.85
326	12	0.02	706	1.24	375	60	0.11	2228	3.90	424	130	0.23	6895	12.08
327	14	0.02	720	1.26	376	73	0.13	2301	4.03	425	134	0.23	7029	12.31
328	11	0.02	731	1.28	377	62	0.11	2363	4.14	426	155	0.27	7184	12.58
329	13	0.02	744	1.30	378	47	0.08	2410	4.22	427	157	0.28	7341	12.86
330	17	0.03	761	1.33	379	67	0.12	2477	4.34	428	143	0.25	7484	13.11
331	20	0.04	781	1.37	380	56	0.10	2533	4.44	429	149	0.26	7633	13.37
332	21	0.04	802	1.40	381	59	0.10	2592	4.54	430	144	0.25	7777	13.62
333	18	0.03	820	1.44	382	71	0.12	2663	4.67	431	158	0.28	7935	13.90
334	23	0.04	843	1.48	383	58	0.10	2721	4.77	432	139	0.24	8074	14.14
335	19	0.03	862	1.51	384	51	0.09	2772	4.86	433	172	0.30	8246	14.45
336	18	0.03	880	1.54	385	74	0.13	2846	4.99	434	183	0.32	8429	14.77
337	26	0.05	906	1.59	386	69	0.12	2915	5.11	435	171	0.30	8600	15.07
338	27	0.05	933	1.63	387	61	0.11	2976	5.21	436	193	0.34	8793	15.40
339	19	0.03	952	1.67	388	69	0.12	3045	5.33	437	163	0.29	8956	15.69
340	17	0.03	969	1.70	389	68	0.12	3113	5.45	438	162	0.28	9118	15.97
341	15	0.03	984	1.72	390	80	0.14	3193	5.59	439	179	0.31	9297	16.29
342	23	0.04	1007	1.76	391	75	0.13	3268	5.72	440	165	0.29	9462	16.58
343	24	0.04	1031	1.81	392	84	0.15	3352	5.87	441	176	0.31	9638	16.88
344	25	0.04	1056	1.85	393	88	0.15	3440	6.03	442	191	0.33	9829	17.22
345	27	0.05	1083	1.90	394	92	0.16	3532	6.19	443	179	0.31	10008	17.53
346	18	0.03	1101	1.93	395	81	0.14	3613	6.33	444	189	0.33	10197	17.86
347	32	0.06	1133	1.98	396	86	0.15	3699	6.48	445	199	0.35	10396	18.21
348	33	0.06	1166	2.04	397	100	0.18	3799	6.66	446	189	0.33	10585	18.54

**Table 182. Science Grade 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. %
447	211	0.37	10796	18.91	496	340	0.60	25175	44.10	545	303	0.53	43415	76.05
448	197	0.35	10993	19.26	497	370	0.65	25545	44.75	546	325	0.57	43740	76.62
449	223	0.39	11216	19.65	498	385	0.67	25930	45.42	547	312	0.55	44052	77.17
450	213	0.37	11429	20.02	499	392	0.69	26322	46.11	548	302	0.53	44354	77.70
451	221	0.39	11650	20.41	500	359	0.63	26681	46.74	549	314	0.55	44668	78.25
452	233	0.41	11883	20.82	501	355	0.62	27036	47.36	550	343	0.60	45011	78.85
453	223	0.39	12106	21.21	502	419	0.73	27455	48.10	551	286	0.50	45297	79.35
454	244	0.43	12350	21.63	503	366	0.64	27821	48.74	552	333	0.58	45630	79.93
455	235	0.41	12585	22.05	504	360	0.63	28181	49.37	553	320	0.56	45950	80.50
456	250	0.44	12835	22.48	505	392	0.69	28573	50.05	554	318	0.56	46268	81.05
457	232	0.41	13067	22.89	506	375	0.66	28948	50.71	555	332	0.58	46600	81.63
458	260	0.46	13327	23.35	507	400	0.70	29348	51.41	556	277	0.49	46877	82.12
459	239	0.42	13566	23.76	508	378	0.66	29726	52.07	557	296	0.52	47173	82.64
460	242	0.42	13808	24.19	509	371	0.65	30097	52.72	558	282	0.49	47455	83.13
461	273	0.48	14081	24.67	510	416	0.73	30513	53.45	559	312	0.55	47767	83.68
462	254	0.44	14335	25.11	511	357	0.63	30870	54.08	560	294	0.52	48061	84.19
463	263	0.46	14598	25.57	512	434	0.76	31304	54.84	561	269	0.47	48330	84.66
464	267	0.47	14865	26.04	513	405	0.71	31709	55.55	562	256	0.45	48586	85.11
465	247	0.43	15112	26.47	514	366	0.64	32075	56.19	563	289	0.51	48875	85.62
466	249	0.44	15361	26.91	515	361	0.63	32436	56.82	564	276	0.48	49151	86.10
467	275	0.48	15636	27.39	516	370	0.65	32806	57.47	565	239	0.42	49390	86.52
468	250	0.44	15886	27.83	517	359	0.63	33165	58.10	566	274	0.48	49664	87.00
469	260	0.46	16146	28.28	518	376	0.66	33541	58.76	567	262	0.46	49926	87.46
470	300	0.53	16446	28.81	519	371	0.65	33912	59.41	568	255	0.45	50181	87.91
471	278	0.49	16724	29.30	520	394	0.69	34306	60.10	569	253	0.44	50434	88.35
472	291	0.51	17015	29.81	521	372	0.65	34678	60.75	570	236	0.41	50670	88.76
473	280	0.49	17295	30.30	522	380	0.67	35058	61.41	571	228	0.40	50898	89.16
474	311	0.54	17606	30.84	523	420	0.74	35478	62.15	572	219	0.38	51117	89.55
475	322	0.56	17928	31.41	524	390	0.68	35868	62.83	573	229	0.40	51346	89.95
476	312	0.55	18240	31.95	525	354	0.62	36222	63.45	574	198	0.35	51544	90.30
477	306	0.54	18546	32.49	526	384	0.67	36606	64.13	575	194	0.34	51738	90.63
478	335	0.59	18881	33.08	527	383	0.67	36989	64.80	576	177	0.31	51915	90.94
479	340	0.60	19221	33.67	528	382	0.67	37371	65.47	577	226	0.40	52141	91.34
480	315	0.55	19536	34.22	529	331	0.58	37702	66.05	578	176	0.31	52317	91.65
481	368	0.64	19904	34.87	530	359	0.63	38061	66.68	579	183	0.32	52500	91.97
482	368	0.64	20272	35.51	531	373	0.65	38434	67.33	580	189	0.33	52689	92.30
483	332	0.58	20604	36.09	532	364	0.64	38798	67.97	581	163	0.29	52852	92.59
484	341	0.60	20945	36.69	533	401	0.70	39199	68.67	582	160	0.28	53012	92.87
485	347	0.61	21292	37.30	534	358	0.63	39557	69.30	583	150	0.26	53162	93.13
486	355	0.62	21647	37.92	535	339	0.59	39896	69.89	584	133	0.23	53295	93.36
487	307	0.54	21954	38.46	536	351	0.61	40247	70.50	585	166	0.29	53461	93.65
488	348	0.61	22302	39.07	537	396	0.69	40643	71.20	586	152	0.27	53613	93.92
489	365	0.64	22667	39.71	538	365	0.64	41008	71.84	587	150	0.26	53763	94.18
490	377	0.66	23044	40.37	539	355	0.62	41363	72.46	588	137	0.24	53900	94.42
491	353	0.62	23397	40.99	540	345	0.60	41708	73.06	589	135	0.24	54035	94.66
492	366	0.64	23763	41.63	541	388	0.68	42096	73.74	590	139	0.24	54174	94.90
493	331	0.58	24094	42.21	542	349	0.61	42445	74.36	591	151	0.26	54325	95.17
494	378	0.66	24472	42.87	543	328	0.57	42773	74.93	592	129	0.23	54454	95.39
495	363	0.64	24835	43.51	544	339	0.59	43112	75.52	593	121	0.21	54575	95.60

**Table 182. Science Grade 8 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
594	103	0.18	54678	95.79	643	12	0.02	56981	99.82
595	127	0.22	54805	96.01	644	6	0.01	56987	99.83
596	119	0.21	54924	96.22	645	8	0.01	56995	99.84
597	117	0.20	55041	96.42	646	8	0.01	57003	99.86
598	107	0.19	55148	96.61	647	7	0.01	57010	99.87
599	97	0.17	55245	96.78	648	8	0.01	57018	99.88
600	77	0.13	55322	96.91	649	6	0.01	57024	99.89
601	86	0.15	55408	97.06	650	3	0.01	57027	99.90
602	89	0.16	55497	97.22	651	3	0.01	57030	99.91
603	73	0.13	55570	97.35	652	5	0.01	57035	99.91
604	90	0.16	55660	97.51	653	6	0.01	57041	99.92
605	62	0.11	55722	97.61	654	6	0.01	57047	99.94
606	70	0.12	55792	97.74	655	5	0.01	57052	99.94
607	78	0.14	55870	97.87	656	5	0.01	57057	99.95
608	71	0.12	55941	98.00	658	3	0.01	57060	99.96
609	54	0.09	55995	98.09	659	3	0.01	57063	99.96
610	66	0.12	56061	98.21	660	1	0.00	57064	99.96
611	69	0.12	56130	98.33	661	1	0.00	57065	99.97
612	52	0.09	56182	98.42	662	1	0.00	57066	99.97
613	51	0.09	56233	98.51	663	1	0.00	57067	99.97
614	44	0.08	56277	98.59	665	1	0.00	57068	99.97
615	62	0.11	56339	98.69	666	1	0.00	57069	99.97
616	49	0.09	56388	98.78	667	1	0.00	57070	99.98
617	49	0.09	56437	98.87	671	1	0.00	57071	99.98
618	42	0.07	56479	98.94	672	2	0.00	57073	99.98
619	41	0.07	56520	99.01	674	4	0.01	57077	99.99
620	31	0.05	56551	99.07	675	1	0.00	57078	99.99
621	30	0.05	56581	99.12	677	1	0.00	57079	99.99
622	34	0.06	56615	99.18	679	1	0.00	57080	99.99
623	28	0.05	56643	99.23	682	1	0.00	57081	99.99
624	32	0.06	56675	99.28	688	1	0.00	57082	100.00
625	31	0.05	56706	99.34	694	2	0.00	57084	100.00
626	22	0.04	56728	99.38					
627	29	0.05	56757	99.43					
628	18	0.03	56775	99.46					
629	24	0.04	56799	99.50					
630	14	0.02	56813	99.53					
631	21	0.04	56834	99.56					
632	10	0.02	56844	99.58					
633	10	0.02	56854	99.60					
634	15	0.03	56869	99.62					
635	14	0.02	56883	99.65					
636	18	0.03	56901	99.68					
637	15	0.03	56916	99.71					
638	15	0.03	56931	99.73					
639	15	0.03	56946	99.76					
640	7	0.01	56953	99.77					
641	6	0.01	56959	99.78					
642	10	0.02	56969	99.80					

**Table 183. Reading Grade 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	265	0.45	265	0.45	449	5	0.01	392	0.67	498	10	0.02	718	1.22
372	1	0.00	266	0.45	450	7	0.01	399	0.68	499	6	0.01	724	1.23
385	2	0.00	268	0.45	451	3	0.01	402	0.68	500	15	0.03	739	1.25
387	1	0.00	269	0.46	452	2	0.00	404	0.69	501	11	0.02	750	1.27
394	1	0.00	270	0.46	453	5	0.01	409	0.69	502	7	0.01	757	1.28
395	1	0.00	271	0.46	454	3	0.01	412	0.70	503	5	0.01	762	1.29
399	1	0.00	272	0.46	455	1	0.00	413	0.70	504	11	0.02	773	1.31
400	1	0.00	273	0.46	456	4	0.01	417	0.71	505	8	0.01	781	1.33
401	6	0.01	279	0.47	457	3	0.01	420	0.71	506	15	0.03	796	1.35
405	1	0.00	280	0.48	458	6	0.01	426	0.72	507	11	0.02	807	1.37
407	1	0.00	281	0.48	459	4	0.01	430	0.73	508	12	0.02	819	1.39
408	2	0.00	283	0.48	460	6	0.01	436	0.74	509	17	0.03	836	1.42
409	2	0.00	285	0.48	461	3	0.01	439	0.75	510	14	0.02	850	1.44
410	2	0.00	287	0.49	462	8	0.01	447	0.76	511	15	0.03	865	1.47
411	4	0.01	291	0.49	463	2	0.00	449	0.76	512	13	0.02	878	1.49
412	1	0.00	292	0.50	464	5	0.01	454	0.77	513	12	0.02	890	1.51
414	1	0.00	293	0.50	465	9	0.02	463	0.79	514	20	0.03	910	1.54
415	6	0.01	299	0.51	466	5	0.01	468	0.79	515	11	0.02	921	1.56
416	1	0.00	300	0.51	467	6	0.01	474	0.80	516	16	0.03	937	1.59
417	1	0.00	301	0.51	468	4	0.01	478	0.81	517	18	0.03	955	1.62
418	3	0.01	304	0.52	469	8	0.01	486	0.82	518	15	0.03	970	1.65
420	1	0.00	305	0.52	470	3	0.01	489	0.83	519	12	0.02	982	1.67
421	2	0.00	307	0.52	471	8	0.01	497	0.84	520	23	0.04	1005	1.71
422	2	0.00	309	0.52	472	3	0.01	500	0.85	521	19	0.03	1024	1.74
423	2	0.00	311	0.53	473	9	0.02	509	0.86	522	32	0.05	1056	1.79
424	3	0.01	314	0.53	474	7	0.01	516	0.88	523	19	0.03	1075	1.82
425	2	0.00	316	0.54	475	11	0.02	527	0.89	524	14	0.02	1089	1.85
426	4	0.01	320	0.54	476	4	0.01	531	0.90	525	20	0.03	1109	1.88
427	7	0.01	327	0.55	477	5	0.01	536	0.91	526	27	0.05	1136	1.93
428	1	0.00	328	0.56	478	12	0.02	548	0.93	527	13	0.02	1149	1.95
429	4	0.01	332	0.56	479	10	0.02	558	0.95	528	21	0.04	1170	1.99
430	2	0.00	334	0.57	480	5	0.01	563	0.96	529	26	0.04	1196	2.03
431	4	0.01	338	0.57	481	6	0.01	569	0.97	530	32	0.05	1228	2.08
432	5	0.01	343	0.58	482	11	0.02	580	0.98	531	22	0.04	1250	2.12
433	2	0.00	345	0.59	483	4	0.01	584	0.99	532	31	0.05	1281	2.17
434	2	0.00	347	0.59	484	7	0.01	591	1.00	533	24	0.04	1305	2.21
435	3	0.01	350	0.59	485	9	0.02	600	1.02	534	26	0.04	1331	2.26
436	2	0.00	352	0.60	486	7	0.01	607	1.03	535	27	0.05	1358	2.30
437	4	0.01	356	0.60	487	6	0.01	613	1.04	536	26	0.04	1384	2.35
438	3	0.01	359	0.61	488	7	0.01	620	1.05	537	20	0.03	1404	2.38
439	2	0.00	361	0.61	489	9	0.02	629	1.07	538	14	0.02	1418	2.41
440	2	0.00	363	0.62	490	6	0.01	635	1.08	539	40	0.07	1458	2.47
441	5	0.01	368	0.62	491	14	0.02	649	1.10	540	29	0.05	1487	2.52
443	3	0.01	371	0.63	492	8	0.01	657	1.12	541	34	0.06	1521	2.58
444	5	0.01	376	0.64	493	8	0.01	665	1.13	542	28	0.05	1549	2.63
445	5	0.01	381	0.65	494	7	0.01	672	1.14	543	37	0.06	1586	2.69
446	2	0.00	383	0.65	495	11	0.02	683	1.16	544	43	0.07	1629	2.76
447	1	0.00	384	0.65	496	13	0.02	696	1.18	545	34	0.06	1663	2.82
448	3	0.01	387	0.66	497	12	0.02	708	1.20	546	56	0.10	1719	2.92

**Table 183. Reading Grade 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. %
547	37	0.06	1756	2.98	596	161	0.27	6061	10.29	645	425	0.72	20284	34.42
548	42	0.07	1798	3.05	597	143	0.24	6204	10.53	646	468	0.79	20752	35.22
549	33	0.06	1831	3.11	598	174	0.30	6378	10.82	647	438	0.74	21190	35.96
550	53	0.09	1884	3.20	599	163	0.28	6541	11.10	648	451	0.77	21641	36.73
551	37	0.06	1921	3.26	600	176	0.30	6717	11.40	649	452	0.77	22093	37.49
552	40	0.07	1961	3.33	601	190	0.32	6907	11.72	650	499	0.85	22592	38.34
553	49	0.08	2010	3.41	602	173	0.29	7080	12.02	651	461	0.78	23053	39.12
554	58	0.10	2068	3.51	603	196	0.33	7276	12.35	652	448	0.76	23501	39.88
555	52	0.09	2120	3.60	604	217	0.37	7493	12.72	653	449	0.76	23950	40.65
556	54	0.09	2174	3.69	605	202	0.34	7695	13.06	654	504	0.86	24454	41.50
557	40	0.07	2214	3.76	606	207	0.35	7902	13.41	655	433	0.73	24887	42.24
558	56	0.10	2270	3.85	607	170	0.29	8072	13.70	656	490	0.83	25377	43.07
559	56	0.10	2326	3.95	608	206	0.35	8278	14.05	657	473	0.80	25850	43.87
560	53	0.09	2379	4.04	609	192	0.33	8470	14.37	658	481	0.82	26331	44.69
561	65	0.11	2444	4.15	610	226	0.38	8696	14.76	659	494	0.84	26825	45.53
562	57	0.10	2501	4.24	611	205	0.35	8901	15.11	660	472	0.80	27297	46.33
563	73	0.12	2574	4.37	612	243	0.41	9144	15.52	661	518	0.88	27815	47.21
564	61	0.10	2635	4.47	613	236	0.40	9380	15.92	662	502	0.85	28317	48.06
565	62	0.11	2697	4.58	614	228	0.39	9608	16.31	663	503	0.85	28820	48.91
566	67	0.11	2764	4.69	615	263	0.45	9871	16.75	664	507	0.86	29327	49.77
567	77	0.13	2841	4.82	616	256	0.43	10127	17.19	665	551	0.94	29878	50.71
568	52	0.09	2893	4.91	617	303	0.51	10430	17.70	666	519	0.88	30397	51.59
569	79	0.13	2972	5.04	618	261	0.44	10691	18.14	667	504	0.86	30901	52.44
570	74	0.13	3046	5.17	619	269	0.46	10960	18.60	668	503	0.85	31404	53.30
571	79	0.13	3125	5.30	620	317	0.54	11277	19.14	669	496	0.84	31900	54.14
572	96	0.16	3221	5.47	621	278	0.47	11555	19.61	670	473	0.80	32373	54.94
573	91	0.15	3312	5.62	622	294	0.50	11849	20.11	671	537	0.91	32910	55.85
574	98	0.17	3410	5.79	623	293	0.50	12142	20.61	672	488	0.83	33398	56.68
575	90	0.15	3500	5.94	624	298	0.51	12440	21.11	673	497	0.84	33895	57.52
576	90	0.15	3590	6.09	625	349	0.59	12789	21.70	674	509	0.86	34404	58.39
577	88	0.15	3678	6.24	626	308	0.52	13097	22.23	675	502	0.85	34906	59.24
578	88	0.15	3766	6.39	627	318	0.54	13415	22.77	676	490	0.83	35396	60.07
579	98	0.17	3864	6.56	628	310	0.53	13725	23.29	677	497	0.84	35893	60.92
580	88	0.15	3952	6.71	629	330	0.56	14055	23.85	678	500	0.85	36393	61.76
581	102	0.17	4054	6.88	630	356	0.60	14411	24.46	679	485	0.82	36878	62.59
582	115	0.20	4169	7.08	631	361	0.61	14772	25.07	680	521	0.88	37399	63.47
583	118	0.20	4287	7.28	632	374	0.63	15146	25.70	681	540	0.92	37939	64.39
584	114	0.19	4401	7.47	633	347	0.59	15493	26.29	682	504	0.86	38443	65.24
585	113	0.19	4514	7.66	634	353	0.60	15846	26.89	683	467	0.79	38910	66.04
586	98	0.17	4612	7.83	635	366	0.62	16212	27.51	684	502	0.85	39412	66.89
587	140	0.24	4752	8.06	636	414	0.70	16626	28.22	685	478	0.81	39890	67.70
588	120	0.20	4872	8.27	637	365	0.62	16991	28.84	686	512	0.87	40402	68.57
589	122	0.21	4994	8.48	638	382	0.65	17373	29.48	687	508	0.86	40910	69.43
590	141	0.24	5135	8.71	639	451	0.77	17824	30.25	688	443	0.75	41353	70.18
591	143	0.24	5278	8.96	640	416	0.71	18240	30.96	689	506	0.86	41859	71.04
592	164	0.28	5442	9.24	641	388	0.66	18628	31.61	690	473	0.80	42332	71.84
593	160	0.27	5602	9.51	642	390	0.66	19018	32.28	691	479	0.81	42811	72.66
594	149	0.25	5751	9.76	643	400	0.68	19418	32.95	692	456	0.77	43267	73.43
595	149	0.25	5900	10.01	644	441	0.75	19859	33.70	693	447	0.76	43714	74.19

**Table 183. Reading Grade 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. %
694	451	0.77	44165	74.95	743	100	0.17	57472	97.54	792	1	0.00	58880	99.93
695	433	0.73	44598	75.69	744	100	0.17	57572	97.71	793	2	0.00	58882	99.93
696	449	0.76	45047	76.45	745	83	0.14	57655	97.85	794	3	0.01	58885	99.94
697	439	0.75	45486	77.20	746	79	0.13	57734	97.98	795	3	0.01	58888	99.94
698	446	0.76	45932	77.95	747	71	0.12	57805	98.10	796	5	0.01	58893	99.95
699	428	0.73	46360	78.68	748	71	0.12	57876	98.22	797	3	0.01	58896	99.95
700	411	0.70	46771	79.38	749	62	0.11	57938	98.33	798	2	0.00	58898	99.96
701	404	0.69	47175	80.06	750	66	0.11	58004	98.44	800	5	0.01	58903	99.97
702	395	0.67	47570	80.73	751	58	0.10	58062	98.54	801	2	0.00	58905	99.97
703	415	0.70	47985	81.44	752	45	0.08	58107	98.62	802	1	0.00	58906	99.97
704	406	0.69	48391	82.13	753	61	0.10	58168	98.72	803	1	0.00	58907	99.97
705	357	0.61	48748	82.73	754	49	0.08	58217	98.80	805	1	0.00	58908	99.97
706	409	0.69	49157	83.43	755	40	0.07	58257	98.87	806	1	0.00	58909	99.98
707	347	0.59	49504	84.01	756	34	0.06	58291	98.93	809	1	0.00	58910	99.98
708	345	0.59	49849	84.60	757	33	0.06	58324	98.98	812	1	0.00	58911	99.98
709	359	0.61	50208	85.21	758	32	0.05	58356	99.04	813	1	0.00	58912	99.98
710	336	0.57	50544	85.78	759	39	0.07	58395	99.10	814	3	0.01	58915	99.99
711	353	0.60	50897	86.38	760	40	0.07	58435	99.17	816	1	0.00	58916	99.99
712	334	0.57	51231	86.95	761	28	0.05	58463	99.22	818	2	0.00	58918	99.99
713	295	0.50	51526	87.45	762	35	0.06	58498	99.28	828	1	0.00	58919	99.99
714	313	0.53	51839	87.98	763	26	0.04	58524	99.32	830	1	0.00	58920	99.99
715	309	0.52	52148	88.50	764	35	0.06	58559	99.38	833	1	0.00	58921	100.00
716	309	0.52	52457	89.03	765	28	0.05	58587	99.43	839	1	0.00	58922	100.00
717	296	0.50	52753	89.53	766	18	0.03	58605	99.46	888	1	0.00	58923	100.00
718	273	0.46	53026	89.99	767	29	0.05	58634	99.51					
719	270	0.46	53296	90.45	768	21	0.04	58655	99.55					
720	282	0.48	53578	90.93	769	21	0.04	58676	99.58					
721	261	0.44	53839	91.37	770	12	0.02	58688	99.60					
722	224	0.38	54063	91.75	771	16	0.03	58704	99.63					
723	245	0.42	54308	92.17	772	14	0.02	58718	99.65					
724	244	0.41	54552	92.58	773	9	0.02	58727	99.67					
725	228	0.39	54780	92.97	774	15	0.03	58742	99.69					
726	205	0.35	54985	93.32	775	6	0.01	58748	99.70					
727	221	0.38	55206	93.69	776	18	0.03	58766	99.73					
728	187	0.32	55393	94.01	777	15	0.03	58781	99.76					
729	177	0.30	55570	94.31	778	8	0.01	58789	99.77					
730	181	0.31	55751	94.62	779	4	0.01	58793	99.78					
731	188	0.32	55939	94.94	780	17	0.03	58810	99.81					
732	164	0.28	56103	95.21	781	6	0.01	58816	99.82					
733	152	0.26	56255	95.47	782	11	0.02	58827	99.84					
734	136	0.23	56391	95.70	783	7	0.01	58834	99.85					
735	148	0.25	56539	95.95	784	6	0.01	58840	99.86					
736	138	0.23	56677	96.19	785	5	0.01	58845	99.87					
737	135	0.23	56812	96.42	786	5	0.01	58850	99.88					
738	132	0.22	56944	96.64	787	9	0.02	58859	99.89					
739	111	0.19	57055	96.83	788	7	0.01	58866	99.90					
740	110	0.19	57165	97.02	789	7	0.01	58873	99.92					
741	103	0.17	57268	97.19	790	2	0.00	58875	99.92					
742	104	0.18	57372	97.37	791	4	0.01	58879	99.93					

**Table 184. Writing Grade 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	78	0.13	78	0.13	324	3	0.01	176	0.30	373	11	0.02	519	0.88
261	3	0.01	81	0.14	325	5	0.01	181	0.31	374	16	0.03	535	0.91
264	2	0.00	83	0.14	326	5	0.01	186	0.32	375	19	0.03	554	0.94
265	1	0.00	84	0.14	327	3	0.01	189	0.32	376	12	0.02	566	0.96
267	1	0.00	85	0.14	328	7	0.01	196	0.33	377	11	0.02	577	0.98
268	1	0.00	86	0.15	329	2	0.00	198	0.34	378	17	0.03	594	1.01
270	4	0.01	90	0.15	330	3	0.01	201	0.34	379	10	0.02	604	1.02
273	2	0.00	92	0.16	331	2	0.00	203	0.34	380	17	0.03	621	1.05
274	2	0.00	94	0.16	332	2	0.00	205	0.35	381	18	0.03	639	1.08
276	1	0.00	95	0.16	333	3	0.01	208	0.35	382	20	0.03	659	1.12
279	1	0.00	96	0.16	334	6	0.01	214	0.36	383	25	0.04	684	1.16
280	2	0.00	98	0.17	335	3	0.01	217	0.37	384	22	0.04	706	1.20
281	1	0.00	99	0.17	336	2	0.00	219	0.37	385	19	0.03	725	1.23
282	3	0.01	102	0.17	337	5	0.01	224	0.38	386	17	0.03	742	1.26
285	2	0.00	104	0.18	338	9	0.02	233	0.40	387	19	0.03	761	1.29
286	2	0.00	106	0.18	339	9	0.02	242	0.41	388	17	0.03	778	1.32
287	2	0.00	108	0.18	340	5	0.01	247	0.42	389	23	0.04	801	1.36
288	1	0.00	109	0.18	341	5	0.01	252	0.43	390	27	0.05	828	1.40
289	1	0.00	110	0.19	342	7	0.01	259	0.44	391	35	0.06	863	1.46
291	1	0.00	111	0.19	343	7	0.01	266	0.45	392	26	0.04	889	1.51
292	3	0.01	114	0.19	344	3	0.01	269	0.46	393	37	0.06	926	1.57
293	2	0.00	116	0.20	345	7	0.01	276	0.47	394	22	0.04	948	1.61
294	1	0.00	117	0.20	346	7	0.01	283	0.48	395	18	0.03	966	1.64
295	2	0.00	119	0.20	347	8	0.01	291	0.49	396	29	0.05	995	1.69
296	1	0.00	120	0.20	348	10	0.02	301	0.51	397	24	0.04	1019	1.73
297	2	0.00	122	0.21	349	1	0.00	302	0.51	398	30	0.05	1049	1.78
298	1	0.00	123	0.21	350	6	0.01	308	0.52	399	27	0.05	1076	1.83
300	3	0.01	126	0.21	351	10	0.02	318	0.54	400	35	0.06	1111	1.88
302	1	0.00	127	0.22	352	7	0.01	325	0.55	401	26	0.04	1137	1.93
304	6	0.01	133	0.23	353	4	0.01	329	0.56	402	26	0.04	1163	1.97
305	1	0.00	134	0.23	354	7	0.01	336	0.57	403	27	0.05	1190	2.02
306	3	0.01	137	0.23	355	9	0.02	345	0.59	404	29	0.05	1219	2.07
307	3	0.01	140	0.24	356	10	0.02	355	0.60	405	27	0.05	1246	2.11
308	2	0.00	142	0.24	357	11	0.02	366	0.62	406	31	0.05	1277	2.17
309	2	0.00	144	0.24	358	8	0.01	374	0.63	407	44	0.07	1321	2.24
310	4	0.01	148	0.25	359	6	0.01	380	0.64	408	40	0.07	1361	2.31
311	1	0.00	149	0.25	360	6	0.01	386	0.65	409	42	0.07	1403	2.38
312	2	0.00	151	0.26	361	11	0.02	397	0.67	410	31	0.05	1434	2.43
313	3	0.01	154	0.26	362	8	0.01	405	0.69	411	31	0.05	1465	2.49
314	2	0.00	156	0.26	363	4	0.01	409	0.69	412	41	0.07	1506	2.56
315	1	0.00	157	0.27	364	7	0.01	416	0.71	413	39	0.07	1545	2.62
316	1	0.00	158	0.27	365	11	0.02	427	0.72	414	36	0.06	1581	2.68
317	3	0.01	161	0.27	366	12	0.02	439	0.74	415	30	0.05	1611	2.73
318	1	0.00	162	0.27	367	10	0.02	449	0.76	416	40	0.07	1651	2.80
319	2	0.00	164	0.28	368	10	0.02	459	0.78	417	49	0.08	1700	2.88
320	1	0.00	165	0.28	369	11	0.02	470	0.80	418	36	0.06	1736	2.95
321	2	0.00	167	0.28	370	12	0.02	482	0.82	419	30	0.05	1766	3.00
322	3	0.01	170	0.29	371	17	0.03	499	0.85	420	49	0.08	1815	3.08
323	3	0.01	173	0.29	372	9	0.02	508	0.86	421	44	0.07	1859	3.15



**Table 184. Writing Grade 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. %
422	41	0.07	1900	3.22	471	151	0.26	6146	10.43	520	269	0.46	15463	26.24
423	54	0.09	1954	3.32	472	160	0.27	6306	10.70	521	250	0.42	15713	26.66
424	52	0.09	2006	3.40	473	140	0.24	6446	10.94	522	219	0.37	15932	27.03
425	36	0.06	2042	3.46	474	150	0.25	6596	11.19	523	293	0.50	16225	27.53
426	49	0.08	2091	3.55	475	135	0.23	6731	11.42	524	251	0.43	16476	27.95
427	51	0.09	2142	3.63	476	131	0.22	6862	11.64	525	276	0.47	16752	28.42
428	41	0.07	2183	3.70	477	130	0.22	6992	11.86	526	256	0.43	17008	28.86
429	49	0.08	2232	3.79	478	158	0.27	7150	12.13	527	265	0.45	17273	29.31
430	56	0.10	2288	3.88	479	148	0.25	7298	12.38	528	235	0.40	17508	29.71
431	53	0.09	2341	3.97	480	138	0.23	7436	12.62	529	287	0.49	17795	30.19
432	66	0.11	2407	4.08	481	134	0.23	7570	12.84	530	290	0.49	18085	30.68
433	58	0.10	2465	4.18	482	171	0.29	7741	13.13	531	278	0.47	18363	31.16
434	66	0.11	2531	4.29	483	162	0.27	7903	13.41	532	305	0.52	18668	31.67
435	66	0.11	2597	4.41	484	169	0.29	8072	13.70	533	264	0.45	18932	32.12
436	80	0.14	2677	4.54	485	152	0.26	8224	13.95	534	266	0.45	19198	32.57
437	66	0.11	2743	4.65	486	172	0.29	8396	14.25	535	291	0.49	19489	33.07
438	66	0.11	2809	4.77	487	166	0.28	8562	14.53	536	273	0.46	19762	33.53
439	65	0.11	2874	4.88	488	160	0.27	8722	14.80	537	281	0.48	20043	34.01
440	64	0.11	2938	4.98	489	170	0.29	8892	15.09	538	310	0.53	20353	34.53
441	74	0.13	3012	5.11	490	175	0.30	9067	15.38	539	306	0.52	20659	35.05
442	65	0.11	3077	5.22	491	173	0.29	9240	15.68	540	319	0.54	20978	35.59
443	67	0.11	3144	5.33	492	187	0.32	9427	15.99	541	316	0.54	21294	36.13
444	101	0.17	3245	5.51	493	171	0.29	9598	16.28	542	313	0.53	21607	36.66
445	93	0.16	3338	5.66	494	176	0.30	9774	16.58	543	327	0.55	21934	37.21
446	93	0.16	3431	5.82	495	159	0.27	9933	16.85	544	305	0.52	22239	37.73
447	81	0.14	3512	5.96	496	176	0.30	10109	17.15	545	317	0.54	22556	38.27
448	98	0.17	3610	6.12	497	172	0.29	10281	17.44	546	277	0.47	22833	38.74
449	80	0.14	3690	6.26	498	208	0.35	10489	17.80	547	319	0.54	23152	39.28
450	96	0.16	3786	6.42	499	184	0.31	10673	18.11	548	310	0.53	23462	39.81
451	80	0.14	3866	6.56	500	192	0.33	10865	18.43	549	310	0.53	23772	40.33
452	90	0.15	3956	6.71	501	202	0.34	11067	18.78	550	309	0.52	24081	40.86
453	105	0.18	4061	6.89	502	223	0.38	11290	19.16	551	312	0.53	24393	41.39
454	90	0.15	4151	7.04	503	179	0.30	11469	19.46	552	343	0.58	24736	41.97
455	94	0.16	4245	7.20	504	222	0.38	11691	19.84	553	349	0.59	25085	42.56
456	100	0.17	4345	7.37	505	202	0.34	11893	20.18	554	309	0.52	25394	43.09
457	109	0.18	4454	7.56	506	225	0.38	12118	20.56	555	323	0.55	25717	43.63
458	112	0.19	4566	7.75	507	228	0.39	12346	20.95	556	307	0.52	26024	44.15
459	112	0.19	4678	7.94	508	197	0.33	12543	21.28	557	336	0.57	26360	44.72
460	111	0.19	4789	8.13	509	231	0.39	12774	21.67	558	301	0.51	26661	45.23
461	121	0.21	4910	8.33	510	223	0.38	12997	22.05	559	327	0.55	26988	45.79
462	119	0.20	5029	8.53	511	240	0.41	13237	22.46	560	360	0.61	27348	46.40
463	104	0.18	5133	8.71	512	232	0.39	13469	22.85	561	304	0.52	27652	46.92
464	115	0.20	5248	8.90	513	263	0.45	13732	23.30	562	337	0.57	27989	47.49
465	120	0.20	5368	9.11	514	231	0.39	13963	23.69	563	346	0.59	28335	48.08
466	117	0.20	5485	9.31	515	240	0.41	14203	24.10	564	351	0.60	28686	48.67
467	119	0.20	5604	9.51	516	260	0.44	14463	24.54	565	303	0.51	28989	49.18
468	136	0.23	5740	9.74	517	244	0.41	14707	24.95	566	355	0.60	29344	49.79
469	118	0.20	5858	9.94	518	247	0.42	14954	25.37	567	331	0.56	29675	50.35
470	137	0.23	5995	10.17	519	240	0.41	15194	25.78	568	366	0.62	30041	50.97

**Table 184. Writing Grade 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. %
569	358	0.61	30399	51.58	618	278	0.47	45076	76.48	667	110	0.19	53770	91.23
570	323	0.55	30722	52.13	619	264	0.45	45340	76.93	668	108	0.18	53878	91.41
571	324	0.55	31046	52.67	620	255	0.43	45595	77.36	669	122	0.21	54000	91.62
572	338	0.57	31384	53.25	621	239	0.41	45834	77.77	670	114	0.19	54114	91.81
573	321	0.54	31705	53.79	622	227	0.39	46061	78.15	671	135	0.23	54249	92.04
574	315	0.53	32020	54.33	623	223	0.38	46284	78.53	672	121	0.21	54370	92.25
575	346	0.59	32366	54.91	624	222	0.38	46506	78.91	673	100	0.17	54470	92.42
576	322	0.55	32688	55.46	625	203	0.34	46709	79.25	674	118	0.20	54588	92.62
577	345	0.59	33033	56.05	626	241	0.41	46950	79.66	675	109	0.18	54697	92.80
578	317	0.54	33350	56.58	627	212	0.36	47162	80.02	676	102	0.17	54799	92.98
579	288	0.49	33638	57.07	628	188	0.32	47350	80.34	677	86	0.15	54885	93.12
580	306	0.52	33944	57.59	629	191	0.32	47541	80.66	678	105	0.18	54990	93.30
581	324	0.55	34268	58.14	630	215	0.36	47756	81.03	679	102	0.17	55092	93.47
582	307	0.52	34575	58.66	631	193	0.33	47949	81.35	680	102	0.17	55194	93.65
583	313	0.53	34888	59.19	632	193	0.33	48142	81.68	681	107	0.18	55301	93.83
584	334	0.57	35222	59.76	633	219	0.37	48361	82.05	682	80	0.14	55381	93.96
585	329	0.56	35551	60.32	634	199	0.34	48560	82.39	683	85	0.14	55466	94.11
586	349	0.59	35900	60.91	635	212	0.36	48772	82.75	684	100	0.17	55566	94.28
587	325	0.55	36225	61.46	636	200	0.34	48972	83.09	685	84	0.14	55650	94.42
588	322	0.55	36547	62.01	637	184	0.31	49156	83.40	686	93	0.16	55743	94.58
589	317	0.54	36864	62.55	638	188	0.32	49344	83.72	687	86	0.15	55829	94.72
590	336	0.57	37200	63.12	639	192	0.33	49536	84.05	688	67	0.11	55896	94.84
591	299	0.51	37499	63.62	640	184	0.31	49720	84.36	689	65	0.11	55961	94.95
592	318	0.54	37817	64.16	641	159	0.27	49879	84.63	690	70	0.12	56031	95.07
593	314	0.53	38131	64.70	642	167	0.28	50046	84.91	691	90	0.15	56121	95.22
594	265	0.45	38396	65.15	643	173	0.29	50219	85.21	692	53	0.09	56174	95.31
595	301	0.51	38697	65.66	644	191	0.32	50410	85.53	693	71	0.12	56245	95.43
596	286	0.49	38983	66.14	645	157	0.27	50567	85.80	694	82	0.14	56327	95.57
597	293	0.50	39276	66.64	646	194	0.33	50761	86.12	695	63	0.11	56390	95.68
598	304	0.52	39580	67.15	647	194	0.33	50955	86.45	696	47	0.08	56437	95.75
599	299	0.51	39879	67.66	648	163	0.28	51118	86.73	697	66	0.11	56503	95.87
600	305	0.52	40184	68.18	649	167	0.28	51285	87.01	698	54	0.09	56557	95.96
601	290	0.49	40474	68.67	650	162	0.27	51447	87.29	699	56	0.10	56613	96.05
602	292	0.50	40766	69.17	651	160	0.27	51607	87.56	700	79	0.13	56692	96.19
603	290	0.49	41056	69.66	652	161	0.27	51768	87.83	701	55	0.09	56747	96.28
604	254	0.43	41310	70.09	653	137	0.23	51905	88.07	702	57	0.10	56804	96.38
605	281	0.48	41591	70.57	654	150	0.25	52055	88.32	703	48	0.08	56852	96.46
606	272	0.46	41863	71.03	655	138	0.23	52193	88.55	704	52	0.09	56904	96.55
607	286	0.49	42149	71.51	656	133	0.23	52326	88.78	705	66	0.11	56970	96.66
608	280	0.48	42429	71.99	657	129	0.22	52455	89.00	706	50	0.08	57020	96.74
609	270	0.46	42699	72.45	658	140	0.24	52595	89.24	707	62	0.11	57082	96.85
610	251	0.43	42950	72.87	659	144	0.24	52739	89.48	708	52	0.09	57134	96.94
611	257	0.44	43207	73.31	660	144	0.24	52883	89.72	709	50	0.08	57184	97.02
612	251	0.43	43458	73.73	661	138	0.23	53021	89.96	710	46	0.08	57230	97.10
613	289	0.49	43747	74.22	662	146	0.25	53167	90.21	711	33	0.06	57263	97.16
614	281	0.48	44028	74.70	663	115	0.20	53282	90.40	712	39	0.07	57302	97.22
615	265	0.45	44293	75.15	664	119	0.20	53401	90.60	713	33	0.06	57335	97.28
616	267	0.45	44560	75.60	665	138	0.23	53539	90.84	714	32	0.05	57367	97.33
617	238	0.40	44798	76.01	666	121	0.21	53660	91.04	715	43	0.07	57410	97.41

**Table 184. Writing Grade 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. %
716	31	0.05	57441	97.46	765	11	0.02	58569	99.37	825	1	0.00	58875	99.89
717	37	0.06	57478	97.52	766	4	0.01	58573	99.38	828	1	0.00	58876	99.89
718	36	0.06	57514	97.58	767	13	0.02	58586	99.40	830	8	0.01	58884	99.91
719	30	0.05	57544	97.63	768	16	0.03	58602	99.43	831	2	0.00	58886	99.91
720	36	0.06	57580	97.69	769	9	0.02	58611	99.44	834	1	0.00	58887	99.91
721	24	0.04	57604	97.73	770	18	0.03	58629	99.47	839	2	0.00	58889	99.92
722	36	0.06	57640	97.80	771	16	0.03	58645	99.50	843	2	0.00	58891	99.92
723	38	0.06	57678	97.86	772	6	0.01	58651	99.51	848	5	0.01	58896	99.93
724	30	0.05	57708	97.91	773	2	0.00	58653	99.51	849	2	0.00	58898	99.93
725	53	0.09	57761	98.00	774	8	0.01	58661	99.53	866	3	0.01	58901	99.94
726	30	0.05	57791	98.05	775	12	0.02	58673	99.55	869	18	0.03	58919	99.97
727	32	0.05	57823	98.11	776	5	0.01	58678	99.56	871	3	0.01	58922	99.97
728	40	0.07	57863	98.17	777	2	0.00	58680	99.56	895	2	0.00	58924	99.97
729	30	0.05	57893	98.23	778	5	0.01	58685	99.57	930	15	0.03	58939	100.00
730	28	0.05	57921	98.27	779	7	0.01	58692	99.58					
731	28	0.05	57949	98.32	781	13	0.02	58705	99.60					
732	32	0.05	57981	98.37	782	4	0.01	58709	99.61					
733	20	0.03	58001	98.41	783	9	0.02	58718	99.63					
734	29	0.05	58030	98.46	784	4	0.01	58722	99.63					
735	17	0.03	58047	98.49	785	2	0.00	58724	99.64					
736	23	0.04	58070	98.53	786	1	0.00	58725	99.64					
737	22	0.04	58092	98.56	787	9	0.02	58734	99.65					
738	26	0.04	58118	98.61	788	14	0.02	58748	99.68					
739	27	0.05	58145	98.65	789	8	0.01	58756	99.69					
740	21	0.04	58166	98.69	790	13	0.02	58769	99.71					
741	16	0.03	58182	98.72	791	4	0.01	58773	99.72					
742	24	0.04	58206	98.76	794	1	0.00	58774	99.72					
743	23	0.04	58229	98.80	796	13	0.02	58787	99.74					
744	31	0.05	58260	98.85	797	3	0.01	58790	99.75					
745	27	0.05	58287	98.89	798	5	0.01	58795	99.76					
746	19	0.03	58306	98.93	799	2	0.00	58797	99.76					
747	15	0.03	58321	98.95	800	3	0.01	58800	99.76					
748	8	0.01	58329	98.97	802	1	0.00	58801	99.77					
749	13	0.02	58342	98.99	803	2	0.00	58803	99.77					
750	19	0.03	58361	99.02	804	1	0.00	58804	99.77					
751	15	0.03	58376	99.04	805	2	0.00	58806	99.77					
752	15	0.03	58391	99.07	806	1	0.00	58807	99.78					
753	12	0.02	58403	99.09	807	9	0.02	58816	99.79					
754	16	0.03	58419	99.12	808	4	0.01	58820	99.80					
755	12	0.02	58431	99.14	809	2	0.00	58822	99.80					
756	12	0.02	58443	99.16	810	1	0.00	58823	99.80					
757	35	0.06	58478	99.22	812	1	0.00	58824	99.80					
758	22	0.04	58500	99.26	814	3	0.01	58827	99.81					
759	5	0.01	58505	99.26	815	8	0.01	58835	99.82					
760	9	0.02	58514	99.28	816	11	0.02	58846	99.84					
761	13	0.02	58527	99.30	817	16	0.03	58862	99.87					
762	14	0.02	58541	99.32	818	8	0.01	58870	99.88					
763	10	0.02	58551	99.34	819	3	0.01	58873	99.89					
764	7	0.01	58558	99.35	823	1	0.00	58874	99.89					

**Table 185. Mathematics Grade 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	966	1.64	966	1.64	389	26	0.04	1615	2.73	438	51	0.09	3362	5.69
341	12	0.02	978	1.66	390	22	0.04	1637	2.77	439	49	0.08	3411	5.78
342	11	0.02	989	1.67	391	26	0.04	1663	2.82	440	70	0.12	3481	5.90
343	8	0.01	997	1.69	392	22	0.04	1685	2.85	441	67	0.11	3548	6.01
344	6	0.01	1003	1.70	393	21	0.04	1706	2.89	442	49	0.08	3597	6.09
345	10	0.02	1013	1.72	394	20	0.03	1726	2.92	443	64	0.11	3661	6.20
346	10	0.02	1023	1.73	395	22	0.04	1748	2.96	444	51	0.09	3712	6.29
347	8	0.01	1031	1.75	396	29	0.05	1777	3.01	445	66	0.11	3778	6.40
348	7	0.01	1038	1.76	397	20	0.03	1797	3.04	446	59	0.10	3837	6.50
349	11	0.02	1049	1.78	398	32	0.05	1829	3.10	447	58	0.10	3895	6.60
350	7	0.01	1056	1.79	399	27	0.05	1856	3.14	448	62	0.10	3957	6.70
351	14	0.02	1070	1.81	400	26	0.04	1882	3.19	449	73	0.12	4030	6.82
352	10	0.02	1080	1.83	401	26	0.04	1908	3.23	450	63	0.11	4093	6.93
353	16	0.03	1096	1.86	402	29	0.05	1937	3.28	451	79	0.13	4172	7.07
354	13	0.02	1109	1.88	403	34	0.06	1971	3.34	452	83	0.14	4255	7.21
355	3	0.01	1112	1.88	404	28	0.05	1999	3.39	453	69	0.12	4324	7.32
356	10	0.02	1122	1.90	405	35	0.06	2034	3.44	454	74	0.13	4398	7.45
357	8	0.01	1130	1.91	406	34	0.06	2068	3.50	455	81	0.14	4479	7.59
358	11	0.02	1141	1.93	407	23	0.04	2091	3.54	456	71	0.12	4550	7.71
359	18	0.03	1159	1.96	408	40	0.07	2131	3.61	457	67	0.11	4617	7.82
360	9	0.02	1168	1.98	409	31	0.05	2162	3.66	458	92	0.16	4709	7.97
361	9	0.02	1177	1.99	410	34	0.06	2196	3.72	459	88	0.15	4797	8.12
362	12	0.02	1189	2.01	411	37	0.06	2233	3.78	460	81	0.14	4878	8.26
363	11	0.02	1200	2.03	412	37	0.06	2270	3.84	461	91	0.15	4969	8.41
364	22	0.04	1222	2.07	413	27	0.05	2297	3.89	462	83	0.14	5052	8.56
365	12	0.02	1234	2.09	414	19	0.03	2316	3.92	463	89	0.15	5141	8.71
366	9	0.02	1243	2.10	415	39	0.07	2355	3.99	464	85	0.14	5226	8.85
367	13	0.02	1256	2.13	416	45	0.08	2400	4.06	465	97	0.16	5323	9.01
368	9	0.02	1265	2.14	417	30	0.05	2430	4.12	466	86	0.15	5409	9.16
369	14	0.02	1279	2.17	418	29	0.05	2459	4.16	467	91	0.15	5500	9.31
370	12	0.02	1291	2.19	419	37	0.06	2496	4.23	468	90	0.15	5590	9.47
371	18	0.03	1309	2.22	420	37	0.06	2533	4.29	469	98	0.17	5688	9.63
372	15	0.03	1324	2.24	421	44	0.07	2577	4.36	470	95	0.16	5783	9.79
373	11	0.02	1335	2.26	422	38	0.06	2615	4.43	471	103	0.17	5886	9.97
374	12	0.02	1347	2.28	423	35	0.06	2650	4.49	472	101	0.17	5987	10.14
375	18	0.03	1365	2.31	424	42	0.07	2692	4.56	473	108	0.18	6095	10.32
376	16	0.03	1381	2.34	425	40	0.07	2732	4.63	474	106	0.18	6201	10.50
377	18	0.03	1399	2.37	426	35	0.06	2767	4.69	475	109	0.18	6310	10.69
378	16	0.03	1415	2.40	427	48	0.08	2815	4.77	476	135	0.23	6445	10.91
379	10	0.02	1425	2.41	428	32	0.05	2847	4.82	477	124	0.21	6569	11.12
380	10	0.02	1435	2.43	429	64	0.11	2911	4.93	478	117	0.20	6686	11.32
381	14	0.02	1449	2.45	430	35	0.06	2946	4.99	479	137	0.23	6823	11.55
382	20	0.03	1469	2.49	431	27	0.05	2973	5.03	480	117	0.20	6940	11.75
383	20	0.03	1489	2.52	432	57	0.10	3030	5.13	481	129	0.22	7069	11.97
384	14	0.02	1503	2.55	433	60	0.10	3090	5.23	482	123	0.21	7192	12.18
385	19	0.03	1522	2.58	434	50	0.08	3140	5.32	483	147	0.25	7339	12.43
386	15	0.03	1537	2.60	435	59	0.10	3199	5.42	484	142	0.24	7481	12.67
387	20	0.03	1557	2.64	436	61	0.10	3260	5.52	485	127	0.22	7608	12.88
388	32	0.05	1589	2.69	437	51	0.09	3311	5.61	486	128	0.22	7736	13.10

**Table 185. Mathematics Grade 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. %
487	135	0.23	7871	13.33	536	257	0.44	17867	30.26	585	346	0.59	32533	55.09
488	137	0.23	8008	13.56	537	269	0.46	18136	30.71	586	372	0.63	32905	55.72
489	128	0.22	8136	13.78	538	282	0.48	18418	31.19	587	341	0.58	33246	56.30
490	146	0.25	8282	14.03	539	256	0.43	18674	31.62	588	318	0.54	33564	56.84
491	174	0.29	8456	14.32	540	287	0.49	18961	32.11	589	356	0.60	33920	57.44
492	166	0.28	8622	14.60	541	262	0.44	19223	32.55	590	373	0.63	34293	58.07
493	165	0.28	8787	14.88	542	271	0.46	19494	33.01	591	361	0.61	34654	58.69
494	150	0.25	8937	15.13	543	259	0.44	19753	33.45	592	315	0.53	34969	59.22
495	156	0.26	9093	15.40	544	285	0.48	20038	33.93	593	341	0.58	35310	59.80
496	158	0.27	9251	15.67	545	242	0.41	20280	34.34	594	353	0.60	35663	60.39
497	170	0.29	9421	15.95	546	289	0.49	20569	34.83	595	303	0.51	35966	60.91
498	167	0.28	9588	16.24	547	261	0.44	20830	35.28	596	360	0.61	36326	61.52
499	155	0.26	9743	16.50	548	297	0.50	21127	35.78	597	317	0.54	36643	62.05
500	163	0.28	9906	16.78	549	266	0.45	21393	36.23	598	343	0.58	36986	62.64
501	195	0.33	10101	17.11	550	295	0.50	21688	36.73	599	344	0.58	37330	63.22
502	195	0.33	10296	17.44	551	296	0.50	21984	37.23	600	348	0.59	37678	63.81
503	201	0.34	10497	17.78	552	271	0.46	22255	37.69	601	329	0.56	38007	64.36
504	177	0.30	10674	18.08	553	296	0.50	22551	38.19	602	328	0.56	38335	64.92
505	202	0.34	10876	18.42	554	291	0.49	22842	38.68	603	335	0.57	38670	65.49
506	205	0.35	11081	18.77	555	306	0.52	23148	39.20	604	339	0.57	39009	66.06
507	205	0.35	11286	19.11	556	312	0.53	23460	39.73	605	347	0.59	39356	66.65
508	219	0.37	11505	19.48	557	304	0.51	23764	40.24	606	341	0.58	39697	67.23
509	195	0.33	11700	19.81	558	281	0.48	24045	40.72	607	348	0.59	40045	67.82
510	197	0.33	11897	20.15	559	278	0.47	24323	41.19	608	306	0.52	40351	68.33
511	197	0.33	12094	20.48	560	299	0.51	24622	41.70	609	278	0.47	40629	68.80
512	233	0.39	12327	20.88	561	304	0.51	24926	42.21	610	323	0.55	40952	69.35
513	197	0.33	12524	21.21	562	307	0.52	25233	42.73	611	351	0.59	41303	69.95
514	202	0.34	12726	21.55	563	301	0.51	25534	43.24	612	328	0.56	41631	70.50
515	193	0.33	12919	21.88	564	295	0.50	25829	43.74	613	290	0.49	41921	70.99
516	193	0.33	13112	22.20	565	297	0.50	26126	44.24	614	326	0.55	42247	71.54
517	165	0.28	13277	22.48	566	304	0.51	26430	44.76	615	326	0.55	42573	72.10
518	228	0.39	13505	22.87	567	303	0.51	26733	45.27	616	325	0.55	42898	72.65
519	226	0.38	13731	23.25	568	279	0.47	27012	45.74	617	296	0.50	43194	73.15
520	229	0.39	13960	23.64	569	309	0.52	27321	46.27	618	323	0.55	43517	73.70
521	226	0.38	14186	24.02	570	321	0.54	27642	46.81	619	293	0.50	43810	74.19
522	196	0.33	14382	24.36	571	331	0.56	27973	47.37	620	280	0.47	44090	74.67
523	235	0.40	14617	24.75	572	307	0.52	28280	47.89	621	323	0.55	44413	75.21
524	248	0.42	14865	25.17	573	332	0.56	28612	48.45	622	300	0.51	44713	75.72
525	247	0.42	15112	25.59	574	332	0.56	28944	49.02	623	299	0.51	45012	76.23
526	232	0.39	15344	25.98	575	324	0.55	29268	49.56	624	267	0.45	45279	76.68
527	255	0.43	15599	26.42	576	293	0.50	29561	50.06	625	292	0.49	45571	77.17
528	239	0.40	15838	26.82	577	336	0.57	29897	50.63	626	265	0.45	45836	77.62
529	252	0.43	16090	27.25	578	341	0.58	30238	51.21	627	275	0.47	46111	78.09
530	237	0.40	16327	27.65	579	324	0.55	30562	51.76	628	266	0.45	46377	78.54
531	264	0.45	16591	28.10	580	321	0.54	30883	52.30	629	286	0.48	46663	79.02
532	272	0.46	16863	28.56	581	343	0.58	31226	52.88	630	275	0.47	46938	79.49
533	235	0.40	17098	28.96	582	310	0.52	31536	53.41	631	237	0.40	47175	79.89
534	266	0.45	17364	29.41	583	296	0.50	31832	53.91	632	254	0.43	47429	80.32
535	246	0.42	17610	29.82	584	355	0.60	32187	54.51	633	285	0.48	47714	80.80

**Table 185. Mathematics Grade 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. %
634	248	0.42	47962	81.22	683	95	0.16	56625	95.89	732	15	0.03	58823	99.62
635	276	0.47	48238	81.69	684	87	0.15	56712	96.04	733	7	0.01	58830	99.63
636	240	0.41	48478	82.10	685	96	0.16	56808	96.20	734	12	0.02	58842	99.65
637	255	0.43	48733	82.53	686	80	0.14	56888	96.34	735	10	0.02	58852	99.66
638	257	0.44	48990	82.96	687	96	0.16	56984	96.50	736	6	0.01	58858	99.67
639	240	0.41	49230	83.37	688	92	0.16	57076	96.66	737	12	0.02	58870	99.70
640	238	0.40	49468	83.77	689	89	0.15	57165	96.81	738	7	0.01	58877	99.71
641	249	0.42	49717	84.19	690	82	0.14	57247	96.95	739	12	0.02	58889	99.73
642	258	0.44	49975	84.63	691	69	0.12	57316	97.06	740	8	0.01	58897	99.74
643	228	0.39	50203	85.02	692	69	0.12	57385	97.18	741	12	0.02	58909	99.76
644	248	0.42	50451	85.44	693	62	0.10	57447	97.29	742	11	0.02	58920	99.78
645	213	0.36	50664	85.80	694	58	0.10	57505	97.38	743	6	0.01	58926	99.79
646	221	0.37	50885	86.17	695	72	0.12	57577	97.51	744	5	0.01	58931	99.80
647	215	0.36	51100	86.54	696	61	0.10	57638	97.61	745	5	0.01	58936	99.81
648	222	0.38	51322	86.91	697	58	0.10	57696	97.71	746	5	0.01	58941	99.82
649	235	0.40	51557	87.31	698	72	0.12	57768	97.83	747	13	0.02	58954	99.84
650	218	0.37	51775	87.68	699	70	0.12	57838	97.95	748	6	0.01	58960	99.85
651	210	0.36	51985	88.04	700	43	0.07	57881	98.02	749	7	0.01	58967	99.86
652	190	0.32	52175	88.36	701	59	0.10	57940	98.12	750	3	0.01	58970	99.86
653	185	0.31	52360	88.67	702	51	0.09	57991	98.21	751	3	0.01	58973	99.87
654	196	0.33	52556	89.00	703	61	0.10	58052	98.31	752	3	0.01	58976	99.87
655	183	0.31	52739	89.31	704	43	0.07	58095	98.38	753	2	0.00	58978	99.88
656	192	0.33	52931	89.64	705	38	0.06	58133	98.45	754	8	0.01	58986	99.89
657	171	0.29	53102	89.93	706	59	0.10	58192	98.55	755	4	0.01	58990	99.90
658	171	0.29	53273	90.22	707	45	0.08	58237	98.62	756	4	0.01	58994	99.91
659	164	0.28	53437	90.49	708	35	0.06	58272	98.68	757	2	0.00	58996	99.91
660	167	0.28	53604	90.78	709	29	0.05	58301	98.73	758	2	0.00	58998	99.91
661	182	0.31	53786	91.09	710	33	0.06	58334	98.79	759	3	0.01	59001	99.92
662	147	0.25	53933	91.33	711	37	0.06	58371	98.85	760	2	0.00	59003	99.92
663	156	0.26	54089	91.60	712	34	0.06	58405	98.91	761	2	0.00	59005	99.92
664	159	0.27	54248	91.87	713	27	0.05	58432	98.95	762	4	0.01	59009	99.93
665	184	0.31	54432	92.18	714	28	0.05	58460	99.00	764	3	0.01	59012	99.94
666	132	0.22	54564	92.40	715	32	0.05	58492	99.06	765	4	0.01	59016	99.94
667	139	0.24	54703	92.64	716	27	0.05	58519	99.10	766	1	0.00	59017	99.94
668	142	0.24	54845	92.88	717	24	0.04	58543	99.14	768	3	0.01	59020	99.95
669	150	0.25	54995	93.13	718	24	0.04	58567	99.18	769	1	0.00	59021	99.95
670	123	0.21	55118	93.34	719	26	0.04	58593	99.23	771	1	0.00	59022	99.95
671	141	0.24	55259	93.58	720	20	0.03	58613	99.26	772	3	0.01	59025	99.96
672	118	0.20	55377	93.78	721	26	0.04	58639	99.30	773	3	0.01	59028	99.96
673	132	0.22	55509	94.00	722	21	0.04	58660	99.34	774	3	0.01	59031	99.97
674	110	0.19	55619	94.19	723	19	0.03	58679	99.37	776	2	0.00	59033	99.97
675	124	0.21	55743	94.40	724	15	0.03	58694	99.40	778	1	0.00	59034	99.97
676	145	0.25	55888	94.65	725	17	0.03	58711	99.43	780	1	0.00	59035	99.97
677	103	0.17	55991	94.82	726	18	0.03	58729	99.46	783	1	0.00	59036	99.98
678	126	0.21	56117	95.03	727	16	0.03	58745	99.48	784	1	0.00	59037	99.98
679	118	0.20	56235	95.23	728	15	0.03	58760	99.51	786	1	0.00	59038	99.98
680	93	0.16	56328	95.39	729	19	0.03	58779	99.54	787	2	0.00	59040	99.98
681	109	0.18	56437	95.57	730	14	0.02	58793	99.56	789	1	0.00	59041	99.98
682	93	0.16	56530	95.73	731	15	0.03	58808	99.59	792	1	0.00	59042	99.99

**Table 185. Mathematics Grade 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>
796	1	0.00	59043	99.99
801	1	0.00	59044	99.99
809	1	0.00	59045	99.99
811	1	0.00	59046	99.99
825	1	0.00	59047	99.99
835	1	0.00	59048	100.00
859	1	0.00	59049	100.00
863	1	0.00	59050	100.00

**Table 186. Reading Grade 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	230	0.41	230	0.41	453	2	0.00	314	0.56	507	5	0.01	503	0.90
373	1	0.00	231	0.41	454	1	0.00	315	0.57	508	4	0.01	507	0.91
374	1	0.00	232	0.42	456	1	0.00	316	0.57	509	6	0.01	513	0.92
377	1	0.00	233	0.42	457	1	0.00	317	0.57	510	6	0.01	519	0.93
378	6	0.01	239	0.43	459	1	0.00	318	0.57	511	5	0.01	524	0.94
381	2	0.00	241	0.43	460	2	0.00	320	0.57	512	7	0.01	531	0.95
382	1	0.00	242	0.43	461	2	0.00	322	0.58	513	3	0.01	534	0.96
384	2	0.00	244	0.44	463	1	0.00	323	0.58	514	3	0.01	537	0.96
387	3	0.01	247	0.44	464	3	0.01	326	0.59	515	5	0.01	542	0.97
390	1	0.00	248	0.45	465	1	0.00	327	0.59	516	3	0.01	545	0.98
392	2	0.00	250	0.45	466	3	0.01	330	0.59	517	10	0.02	555	1.00
394	2	0.00	252	0.45	467	2	0.00	332	0.60	518	6	0.01	561	1.01
395	1	0.00	253	0.45	468	2	0.00	334	0.60	519	9	0.02	570	1.02
396	2	0.00	255	0.46	469	6	0.01	340	0.61	520	11	0.02	581	1.04
399	2	0.00	257	0.46	470	1	0.00	341	0.61	521	13	0.02	594	1.07
400	1	0.00	258	0.46	471	3	0.01	344	0.62	522	10	0.02	604	1.08
401	1	0.00	259	0.46	472	5	0.01	349	0.63	523	11	0.02	615	1.10
404	1	0.00	260	0.47	473	2	0.00	351	0.63	524	10	0.02	625	1.12
405	1	0.00	261	0.47	474	3	0.01	354	0.64	525	11	0.02	636	1.14
409	2	0.00	263	0.47	475	5	0.01	359	0.64	526	5	0.01	641	1.15
412	1	0.00	264	0.47	477	4	0.01	363	0.65	527	8	0.01	649	1.16
413	1	0.00	265	0.48	479	2	0.00	365	0.66	528	9	0.02	658	1.18
415	2	0.00	267	0.48	480	2	0.00	367	0.66	529	15	0.03	673	1.21
416	2	0.00	269	0.48	481	5	0.01	372	0.67	530	11	0.02	684	1.23
417	3	0.01	272	0.49	482	8	0.01	380	0.68	531	16	0.03	700	1.26
418	1	0.00	273	0.49	483	2	0.00	382	0.69	532	15	0.03	715	1.28
419	2	0.00	275	0.49	484	3	0.01	385	0.69	533	16	0.03	731	1.31
420	1	0.00	276	0.50	485	2	0.00	387	0.69	534	13	0.02	744	1.34
421	3	0.01	279	0.50	486	8	0.01	395	0.71	535	7	0.01	751	1.35
422	4	0.01	283	0.51	487	2	0.00	397	0.71	536	16	0.03	767	1.38
423	2	0.00	285	0.51	488	4	0.01	401	0.72	537	15	0.03	782	1.40
424	2	0.00	287	0.52	489	2	0.00	403	0.72	538	16	0.03	798	1.43
426	1	0.00	288	0.52	490	1	0.00	404	0.73	539	12	0.02	810	1.45
427	1	0.00	289	0.52	491	5	0.01	409	0.73	540	13	0.02	823	1.48
428	2	0.00	291	0.52	492	3	0.01	412	0.74	541	13	0.02	836	1.50
430	2	0.00	293	0.53	493	2	0.00	414	0.74	542	19	0.03	855	1.53
431	2	0.00	295	0.53	494	8	0.01	422	0.76	543	17	0.03	872	1.56
434	2	0.00	297	0.53	495	4	0.01	426	0.76	544	15	0.03	887	1.59
435	1	0.00	298	0.53	496	9	0.02	435	0.78	545	14	0.03	901	1.62
437	1	0.00	299	0.54	497	4	0.01	439	0.79	546	16	0.03	917	1.65
438	2	0.00	301	0.54	498	6	0.01	445	0.80	547	14	0.03	931	1.67
439	2	0.00	303	0.54	499	1	0.00	446	0.80	548	27	0.05	958	1.72
440	1	0.00	304	0.55	500	8	0.01	454	0.81	549	32	0.06	990	1.78
442	1	0.00	305	0.55	501	6	0.01	460	0.83	550	17	0.03	1007	1.81
443	2	0.00	307	0.55	502	5	0.01	465	0.83	551	17	0.03	1024	1.84
446	1	0.00	308	0.55	503	10	0.02	475	0.85	552	17	0.03	1041	1.87
447	1	0.00	309	0.55	504	8	0.01	483	0.87	553	28	0.05	1069	1.92
449	2	0.00	311	0.56	505	9	0.02	492	0.88	554	19	0.03	1088	1.95
452	1	0.00	312	0.56	506	6	0.01	498	0.89	555	13	0.02	1101	1.98



**Table 186. Reading Grade 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. %
556	25	0.04	1126	2.02	605	89	0.16	3853	6.91	654	317	0.57	13066	23.45
557	23	0.04	1149	2.06	606	98	0.18	3951	7.09	655	347	0.62	13413	24.07
558	24	0.04	1173	2.11	607	83	0.15	4034	7.24	656	342	0.61	13755	24.68
559	25	0.04	1198	2.15	608	120	0.22	4154	7.45	657	325	0.58	14080	25.27
560	31	0.06	1229	2.21	609	97	0.17	4251	7.63	658	340	0.61	14420	25.88
561	33	0.06	1262	2.26	610	122	0.22	4373	7.85	659	344	0.62	14764	26.50
562	30	0.05	1292	2.32	611	108	0.19	4481	8.04	660	333	0.60	15097	27.09
563	31	0.06	1323	2.37	612	118	0.21	4599	8.25	661	356	0.64	15453	27.73
564	40	0.07	1363	2.45	613	116	0.21	4715	8.46	662	358	0.64	15811	28.37
565	29	0.05	1392	2.50	614	137	0.25	4852	8.71	663	337	0.60	16148	28.98
566	34	0.06	1426	2.56	615	113	0.20	4965	8.91	664	421	0.76	16569	29.73
567	40	0.07	1466	2.63	616	134	0.24	5099	9.15	665	416	0.75	16985	30.48
568	37	0.07	1503	2.70	617	143	0.26	5242	9.41	666	408	0.73	17393	31.21
569	19	0.03	1522	2.73	618	136	0.24	5378	9.65	667	420	0.75	17813	31.97
570	46	0.08	1568	2.81	619	136	0.24	5514	9.90	668	418	0.75	18231	32.72
571	35	0.06	1603	2.88	620	127	0.23	5641	10.12	669	396	0.71	18627	33.43
572	28	0.05	1631	2.93	621	165	0.30	5806	10.42	670	380	0.68	19007	34.11
573	51	0.09	1682	3.02	622	140	0.25	5946	10.67	671	398	0.71	19405	34.82
574	47	0.08	1729	3.10	623	165	0.30	6111	10.97	672	409	0.73	19814	35.56
575	40	0.07	1769	3.17	624	179	0.32	6290	11.29	673	471	0.85	20285	36.40
576	37	0.07	1806	3.24	625	156	0.28	6446	11.57	674	397	0.71	20682	37.12
577	43	0.08	1849	3.32	626	174	0.31	6620	11.88	675	476	0.85	21158	37.97
578	47	0.08	1896	3.40	627	158	0.28	6778	12.16	676	424	0.76	21582	38.73
579	38	0.07	1934	3.47	628	164	0.29	6942	12.46	677	415	0.74	21997	39.48
580	47	0.08	1981	3.56	629	179	0.32	7121	12.78	678	443	0.80	22440	40.27
581	57	0.10	2038	3.66	630	188	0.34	7309	13.12	679	419	0.75	22859	41.02
582	47	0.08	2085	3.74	631	158	0.28	7467	13.40	680	440	0.79	23299	41.81
583	44	0.08	2129	3.82	632	191	0.34	7658	13.74	681	439	0.79	23738	42.60
584	69	0.12	2198	3.94	633	171	0.31	7829	14.05	682	457	0.82	24195	43.42
585	47	0.08	2245	4.03	634	208	0.37	8037	14.42	683	431	0.77	24626	44.19
586	52	0.09	2297	4.12	635	207	0.37	8244	14.79	684	476	0.85	25102	45.05
587	63	0.11	2360	4.24	636	220	0.39	8464	15.19	685	491	0.88	25593	45.93
588	69	0.12	2429	4.36	637	207	0.37	8671	15.56	686	491	0.88	26084	46.81
589	80	0.14	2509	4.50	638	212	0.38	8883	15.94	687	464	0.83	26548	47.64
590	63	0.11	2572	4.62	639	215	0.39	9098	16.33	688	470	0.84	27018	48.49
591	62	0.11	2634	4.73	640	259	0.46	9357	16.79	689	463	0.83	27481	49.32
592	88	0.16	2722	4.88	641	214	0.38	9571	17.18	690	442	0.79	27923	50.11
593	71	0.13	2793	5.01	642	239	0.43	9810	17.60	691	492	0.88	28415	50.99
594	69	0.12	2862	5.14	643	236	0.42	10046	18.03	692	475	0.85	28890	51.85
595	84	0.15	2946	5.29	644	245	0.44	10291	18.47	693	477	0.86	29367	52.70
596	85	0.15	3031	5.44	645	222	0.40	10513	18.87	694	472	0.85	29839	53.55
597	78	0.14	3109	5.58	646	258	0.46	10771	19.33	695	496	0.89	30335	54.44
598	74	0.13	3183	5.71	647	265	0.48	11036	19.81	696	473	0.85	30808	55.29
599	88	0.16	3271	5.87	648	212	0.38	11248	20.19	697	507	0.91	31315	56.20
600	87	0.16	3358	6.03	649	293	0.53	11541	20.71	698	485	0.87	31800	57.07
601	94	0.17	3452	6.19	650	287	0.52	11828	21.23	699	492	0.88	32292	57.95
602	103	0.18	3555	6.38	651	310	0.56	12138	21.78	700	478	0.86	32770	58.81
603	114	0.20	3669	6.58	652	290	0.52	12428	22.30	701	518	0.93	33288	59.74
604	95	0.17	3764	6.75	653	321	0.58	12749	22.88	702	476	0.85	33764	60.59

**Table 186. Reading Grade 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. %
703	473	0.85	34237	61.44	752	199	0.36	51625	92.65	801	13	0.02	55508	99.61
704	468	0.84	34705	62.28	753	158	0.28	51783	92.93	802	8	0.01	55516	99.63
705	448	0.80	35153	63.09	754	193	0.35	51976	93.28	803	17	0.03	55533	99.66
706	443	0.80	35596	63.88	755	199	0.36	52175	93.63	804	17	0.03	55550	99.69
707	464	0.83	36060	64.71	756	159	0.29	52334	93.92	805	15	0.03	55565	99.72
708	450	0.81	36510	65.52	757	164	0.29	52498	94.21	806	10	0.02	55575	99.73
709	418	0.75	36928	66.27	758	185	0.33	52683	94.54	807	11	0.02	55586	99.75
710	463	0.83	37391	67.10	759	161	0.29	52844	94.83	808	7	0.01	55593	99.77
711	430	0.77	37821	67.87	760	135	0.24	52979	95.08	809	5	0.01	55598	99.78
712	441	0.79	38262	68.66	761	156	0.28	53135	95.36	810	7	0.01	55605	99.79
713	469	0.84	38731	69.51	762	151	0.27	53286	95.63	811	9	0.02	55614	99.80
714	410	0.74	39141	70.24	763	148	0.27	53434	95.89	812	6	0.01	55620	99.82
715	421	0.76	39562	71.00	764	143	0.26	53577	96.15	813	6	0.01	55626	99.83
716	434	0.78	39996	71.78	765	97	0.17	53674	96.32	814	8	0.01	55634	99.84
717	427	0.77	40423	72.54	766	114	0.20	53788	96.53	815	2	0.00	55636	99.84
718	441	0.79	40864	73.33	767	102	0.18	53890	96.71	816	5	0.01	55641	99.85
719	454	0.81	41318	74.15	768	110	0.20	54000	96.91	817	2	0.00	55643	99.86
720	401	0.72	41719	74.87	769	103	0.18	54103	97.09	818	5	0.01	55648	99.87
721	413	0.74	42132	75.61	770	87	0.16	54190	97.25	819	5	0.01	55653	99.87
722	418	0.75	42550	76.36	771	114	0.20	54304	97.45	820	4	0.01	55657	99.88
723	402	0.72	42952	77.08	772	72	0.13	54376	97.58	821	3	0.01	55660	99.89
724	410	0.74	43362	77.82	773	80	0.14	54456	97.73	822	2	0.00	55662	99.89
725	383	0.69	43745	78.50	774	55	0.10	54511	97.82	823	4	0.01	55666	99.90
726	327	0.59	44072	79.09	775	62	0.11	54573	97.94	824	6	0.01	55672	99.91
727	375	0.67	44447	79.76	776	65	0.12	54638	98.05	825	6	0.01	55678	99.92
728	359	0.64	44806	80.41	777	71	0.13	54709	98.18	826	2	0.00	55680	99.92
729	338	0.61	45144	81.02	778	46	0.08	54755	98.26	827	4	0.01	55684	99.93
730	348	0.62	45492	81.64	779	62	0.11	54817	98.37	828	4	0.01	55688	99.94
731	327	0.59	45819	82.23	780	60	0.11	54877	98.48	830	4	0.01	55692	99.94
732	344	0.62	46163	82.84	781	45	0.08	54922	98.56	831	2	0.00	55694	99.95
733	324	0.58	46487	83.43	782	51	0.09	54973	98.65	833	3	0.01	55697	99.95
734	318	0.57	46805	84.00	783	49	0.09	55022	98.74	834	4	0.01	55701	99.96
735	329	0.59	47134	84.59	784	42	0.08	55064	98.82	835	2	0.00	55703	99.96
736	301	0.54	47435	85.13	785	37	0.07	55101	98.88	836	1	0.00	55704	99.97
737	303	0.54	47738	85.67	786	42	0.08	55143	98.96	837	1	0.00	55705	99.97
738	310	0.56	48048	86.23	787	39	0.07	55182	99.03	838	1	0.00	55706	99.97
739	304	0.55	48352	86.77	788	33	0.06	55215	99.09	840	1	0.00	55707	99.97
740	270	0.48	48622	87.26	789	43	0.08	55258	99.17	841	3	0.01	55710	99.98
741	268	0.48	48890	87.74	790	28	0.05	55286	99.22	842	1	0.00	55711	99.98
742	292	0.52	49182	88.26	791	27	0.05	55313	99.26	845	1	0.00	55712	99.98
743	280	0.50	49462	88.76	792	26	0.05	55339	99.31	846	1	0.00	55713	99.98
744	284	0.51	49746	89.27	793	30	0.05	55369	99.36	848	1	0.00	55714	99.98
745	262	0.47	50008	89.74	794	23	0.04	55392	99.41	850	1	0.00	55715	99.99
746	250	0.45	50258	90.19	795	25	0.04	55417	99.45	851	1	0.00	55716	99.99
747	272	0.49	50530	90.68	796	22	0.04	55439	99.49	854	1	0.00	55717	99.99
748	222	0.40	50752	91.08	797	18	0.03	55457	99.52	862	1	0.00	55718	99.99
749	229	0.41	50981	91.49	798	17	0.03	55474	99.55	871	1	0.00	55719	99.99
750	225	0.40	51206	91.89	799	9	0.02	55483	99.57	875	1	0.00	55720	99.99
751	220	0.39	51426	92.29	800	12	0.02	55495	99.59	878	1	0.00	55721	100.00

**Table 186. Reading Grade 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>
889	1	0.00	55722	100.00
901	1	0.00	55723	100.00

**Table 187. Writing Grade 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	337	2	0.00	169	0.30	386	21	0.04	576	1.03
271	3	0.01	68	0.12	338	7	0.01	176	0.32	387	14	0.03	590	1.06
275	1	0.00	69	0.12	339	5	0.01	181	0.32	388	13	0.02	603	1.08
277	1	0.00	70	0.13	340	6	0.01	187	0.34	389	10	0.02	613	1.10
278	1	0.00	71	0.13	341	3	0.01	190	0.34	390	28	0.05	641	1.15
280	1	0.00	72	0.13	342	5	0.01	195	0.35	391	21	0.04	662	1.19
281	4	0.01	76	0.14	343	3	0.01	198	0.35	392	21	0.04	683	1.22
283	1	0.00	77	0.14	344	4	0.01	202	0.36	393	24	0.04	707	1.27
286	1	0.00	78	0.14	345	3	0.01	205	0.37	394	22	0.04	729	1.31
287	1	0.00	79	0.14	346	3	0.01	208	0.37	395	22	0.04	751	1.35
289	1	0.00	80	0.14	347	5	0.01	213	0.38	396	22	0.04	773	1.38
291	1	0.00	81	0.15	348	5	0.01	218	0.39	397	21	0.04	794	1.42
293	2	0.00	83	0.15	349	4	0.01	222	0.40	398	21	0.04	815	1.46
294	1	0.00	84	0.15	350	6	0.01	228	0.41	399	31	0.06	846	1.52
296	3	0.01	87	0.16	351	6	0.01	234	0.42	400	26	0.05	872	1.56
297	1	0.00	88	0.16	352	3	0.01	237	0.42	401	33	0.06	905	1.62
298	1	0.00	89	0.16	353	5	0.01	242	0.43	402	26	0.05	931	1.67
299	2	0.00	91	0.16	354	6	0.01	248	0.44	403	34	0.06	965	1.73
302	1	0.00	92	0.16	355	6	0.01	254	0.46	404	24	0.04	989	1.77
303	1	0.00	93	0.17	356	4	0.01	258	0.46	405	25	0.04	1014	1.82
304	3	0.01	96	0.17	357	8	0.01	266	0.48	406	23	0.04	1037	1.86
305	3	0.01	99	0.18	358	10	0.02	276	0.49	407	37	0.07	1074	1.92
306	3	0.01	102	0.18	359	10	0.02	286	0.51	408	31	0.06	1105	1.98
307	2	0.00	104	0.19	360	7	0.01	293	0.52	409	28	0.05	1133	2.03
308	1	0.00	105	0.19	361	3	0.01	296	0.53	410	15	0.03	1148	2.06
309	3	0.01	108	0.19	362	13	0.02	309	0.55	411	35	0.06	1183	2.12
310	2	0.00	110	0.20	363	6	0.01	315	0.56	412	36	0.06	1219	2.18
311	2	0.00	112	0.20	364	7	0.01	322	0.58	413	29	0.05	1248	2.24
312	6	0.01	118	0.21	365	11	0.02	333	0.60	414	38	0.07	1286	2.30
313	1	0.00	119	0.21	366	6	0.01	339	0.61	415	31	0.06	1317	2.36
314	1	0.00	120	0.21	367	10	0.02	349	0.63	416	23	0.04	1340	2.40
317	1	0.00	121	0.22	368	7	0.01	356	0.64	417	30	0.05	1370	2.45
318	2	0.00	123	0.22	369	10	0.02	366	0.66	418	34	0.06	1404	2.52
320	6	0.01	129	0.23	370	11	0.02	377	0.68	419	33	0.06	1437	2.57
321	3	0.01	132	0.24	371	7	0.01	384	0.69	420	43	0.08	1480	2.65
322	1	0.00	133	0.24	372	7	0.01	391	0.70	421	49	0.09	1529	2.74
324	2	0.00	135	0.24	373	9	0.02	400	0.72	422	44	0.08	1573	2.82
325	3	0.01	138	0.25	374	14	0.03	414	0.74	423	48	0.09	1621	2.90
326	1	0.00	139	0.25	375	9	0.02	423	0.76	424	64	0.11	1685	3.02
327	2	0.00	141	0.25	376	15	0.03	438	0.78	425	41	0.07	1726	3.09
328	2	0.00	143	0.26	377	16	0.03	454	0.81	426	38	0.07	1764	3.16
329	2	0.00	145	0.26	378	3	0.01	457	0.82	427	46	0.08	1810	3.24
330	2	0.00	147	0.26	379	9	0.02	466	0.83	428	36	0.06	1846	3.31
331	2	0.00	149	0.27	380	11	0.02	477	0.85	429	42	0.08	1888	3.38
332	2	0.00	151	0.27	381	14	0.03	491	0.88	430	48	0.09	1936	3.47
333	2	0.00	153	0.27	382	14	0.03	505	0.90	431	29	0.05	1965	3.52
334	6	0.01	159	0.28	383	15	0.03	520	0.93	432	56	0.10	2021	3.62
335	3	0.01	162	0.29	384	16	0.03	536	0.96	433	61	0.11	2082	3.73
336	5	0.01	167	0.30	385	19	0.03	555	0.99	434	60	0.11	2142	3.84

**Table 187. Writing Grade 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	59	0.11	2201	3.94	484	131	0.23	6686	11.98	533	188	0.34	15315	27.44
436	58	0.10	2259	4.05	485	126	0.23	6812	12.20	534	236	0.42	15551	27.86
437	49	0.09	2308	4.13	486	139	0.25	6951	12.45	535	263	0.47	15814	28.33
438	42	0.08	2350	4.21	487	134	0.24	7085	12.69	536	255	0.46	16069	28.79
439	57	0.10	2407	4.31	488	122	0.22	7207	12.91	537	262	0.47	16331	29.26
440	43	0.08	2450	4.39	489	134	0.24	7341	13.15	538	257	0.46	16588	29.72
441	66	0.12	2516	4.51	490	143	0.26	7484	13.41	539	251	0.45	16839	30.17
442	63	0.11	2579	4.62	491	127	0.23	7611	13.64	540	258	0.46	17097	30.63
443	63	0.11	2642	4.73	492	128	0.23	7739	13.86	541	291	0.52	17388	31.15
444	66	0.12	2708	4.85	493	147	0.26	7886	14.13	542	264	0.47	17652	31.62
445	66	0.12	2774	4.97	494	124	0.22	8010	14.35	543	252	0.45	17904	32.08
446	83	0.15	2857	5.12	495	163	0.29	8173	14.64	544	272	0.49	18176	32.56
447	79	0.14	2936	5.26	496	153	0.27	8326	14.92	545	245	0.44	18421	33.00
448	88	0.16	3024	5.42	497	150	0.27	8476	15.19	546	266	0.48	18687	33.48
449	69	0.12	3093	5.54	498	140	0.25	8616	15.44	547	300	0.54	18987	34.02
450	81	0.15	3174	5.69	499	159	0.28	8775	15.72	548	234	0.42	19221	34.44
451	81	0.15	3255	5.83	500	165	0.30	8940	16.02	549	289	0.52	19510	34.95
452	87	0.16	3342	5.99	501	184	0.33	9124	16.35	550	271	0.49	19781	35.44
453	82	0.15	3424	6.13	502	161	0.29	9285	16.63	551	269	0.48	20050	35.92
454	72	0.13	3496	6.26	503	153	0.27	9438	16.91	552	279	0.50	20329	36.42
455	69	0.12	3565	6.39	504	159	0.28	9597	17.19	553	261	0.47	20590	36.89
456	94	0.17	3659	6.56	505	179	0.32	9776	17.51	554	266	0.48	20856	37.36
457	95	0.17	3754	6.73	506	199	0.36	9975	17.87	555	285	0.51	21141	37.87
458	92	0.16	3846	6.89	507	182	0.33	10157	18.20	556	272	0.49	21413	38.36
459	97	0.17	3943	7.06	508	150	0.27	10307	18.47	557	303	0.54	21716	38.91
460	88	0.16	4031	7.22	509	163	0.29	10470	18.76	558	276	0.49	21992	39.40
461	93	0.17	4124	7.39	510	182	0.33	10652	19.08	559	278	0.50	22270	39.90
462	82	0.15	4206	7.54	511	173	0.31	10825	19.39	560	249	0.45	22519	40.34
463	100	0.18	4306	7.71	512	172	0.31	10997	19.70	561	284	0.51	22803	40.85
464	103	0.18	4409	7.90	513	185	0.33	11182	20.03	562	305	0.55	23108	41.40
465	110	0.20	4519	8.10	514	164	0.29	11346	20.33	563	313	0.56	23421	41.96
466	105	0.19	4624	8.28	515	184	0.33	11530	20.66	564	274	0.49	23695	42.45
467	86	0.15	4710	8.44	516	209	0.37	11739	21.03	565	309	0.55	24004	43.00
468	92	0.16	4802	8.60	517	173	0.31	11912	21.34	566	258	0.46	24262	43.47
469	105	0.19	4907	8.79	518	178	0.32	12090	21.66	567	307	0.55	24569	44.02
470	107	0.19	5014	8.98	519	203	0.36	12293	22.02	568	286	0.51	24855	44.53
471	120	0.21	5134	9.20	520	198	0.35	12491	22.38	569	309	0.55	25164	45.08
472	101	0.18	5235	9.38	521	180	0.32	12671	22.70	570	295	0.53	25459	45.61
473	119	0.21	5354	9.59	522	233	0.42	12904	23.12	571	265	0.47	25724	46.09
474	122	0.22	5476	9.81	523	213	0.38	13117	23.50	572	268	0.48	25992	46.57
475	116	0.21	5592	10.02	524	230	0.41	13347	23.91	573	311	0.56	26303	47.12
476	115	0.21	5707	10.22	525	210	0.38	13557	24.29	574	303	0.54	26606	47.67
477	119	0.21	5826	10.44	526	216	0.39	13773	24.67	575	313	0.56	26919	48.23
478	124	0.22	5950	10.66	527	197	0.35	13970	25.03	576	310	0.56	27229	48.78
479	126	0.23	6076	10.89	528	221	0.40	14191	25.42	577	280	0.50	27509	49.28
480	125	0.22	6201	11.11	529	230	0.41	14421	25.84	578	261	0.47	27770	49.75
481	143	0.26	6344	11.37	530	237	0.42	14658	26.26	579	280	0.50	28050	50.25
482	108	0.19	6452	11.56	531	252	0.45	14910	26.71	580	321	0.58	28371	50.83
483	103	0.18	6555	11.74	532	217	0.39	15127	27.10	581	317	0.57	28688	51.40

**Table 187. Writing Grade 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. %
582	317	0.57	29005	51.96	631	248	0.44	41875	75.02	680	131	0.23	50318	90.15
583	269	0.48	29274	52.45	632	213	0.38	42088	75.40	681	106	0.19	50424	90.34
584	289	0.52	29563	52.96	633	225	0.40	42313	75.81	682	123	0.22	50547	90.56
585	275	0.49	29838	53.46	634	219	0.39	42532	76.20	683	124	0.22	50671	90.78
586	293	0.52	30131	53.98	635	232	0.42	42764	76.61	684	122	0.22	50793	91.00
587	290	0.52	30421	54.50	636	220	0.39	42984	77.01	685	121	0.22	50914	91.21
588	278	0.50	30699	55.00	637	203	0.36	43187	77.37	686	114	0.20	51028	91.42
589	288	0.52	30987	55.51	638	194	0.35	43381	77.72	687	94	0.17	51122	91.59
590	295	0.53	31282	56.04	639	227	0.41	43608	78.13	688	98	0.18	51220	91.76
591	276	0.49	31558	56.54	640	212	0.38	43820	78.51	689	107	0.19	51327	91.95
592	279	0.50	31837	57.04	641	232	0.42	44052	78.92	690	102	0.18	51429	92.14
593	268	0.48	32105	57.52	642	167	0.30	44219	79.22	691	116	0.21	51545	92.34
594	274	0.49	32379	58.01	643	205	0.37	44424	79.59	692	106	0.19	51651	92.53
595	328	0.59	32707	58.60	644	210	0.38	44634	79.96	693	101	0.18	51752	92.72
596	282	0.51	32989	59.10	645	200	0.36	44834	80.32	694	109	0.20	51861	92.91
597	287	0.51	33276	59.62	646	175	0.31	45009	80.64	695	84	0.15	51945	93.06
598	286	0.51	33562	60.13	647	221	0.40	45230	81.03	696	103	0.18	52048	93.25
599	291	0.52	33853	60.65	648	183	0.33	45413	81.36	697	103	0.18	52151	93.43
600	274	0.49	34127	61.14	649	191	0.34	45604	81.70	698	112	0.20	52263	93.63
601	262	0.47	34389	61.61	650	180	0.32	45784	82.02	699	84	0.15	52347	93.78
602	290	0.52	34679	62.13	651	184	0.33	45968	82.35	700	91	0.16	52438	93.94
603	273	0.49	34952	62.62	652	176	0.32	46144	82.67	701	80	0.14	52518	94.09
604	279	0.50	35231	63.12	653	179	0.32	46323	82.99	702	76	0.14	52594	94.22
605	258	0.46	35489	63.58	654	194	0.35	46517	83.34	703	79	0.14	52673	94.37
606	275	0.49	35764	64.07	655	149	0.27	46666	83.60	704	78	0.14	52751	94.51
607	270	0.48	36034	64.56	656	135	0.24	46801	83.85	705	89	0.16	52840	94.66
608	254	0.46	36288	65.01	657	151	0.27	46952	84.12	706	70	0.13	52910	94.79
609	255	0.46	36543	65.47	658	161	0.29	47113	84.40	707	63	0.11	52973	94.90
610	304	0.54	36847	66.01	659	169	0.30	47282	84.71	708	72	0.13	53045	95.03
611	258	0.46	37105	66.47	660	157	0.28	47439	84.99	709	77	0.14	53122	95.17
612	271	0.49	37376	66.96	661	166	0.30	47605	85.29	710	76	0.14	53198	95.31
613	255	0.46	37631	67.42	662	166	0.30	47771	85.58	711	62	0.11	53260	95.42
614	247	0.44	37878	67.86	663	147	0.26	47918	85.85	712	59	0.11	53319	95.52
615	259	0.46	38137	68.32	664	159	0.28	48077	86.13	713	56	0.10	53375	95.62
616	244	0.44	38381	68.76	665	154	0.28	48231	86.41	714	63	0.11	53438	95.74
617	228	0.41	38609	69.17	666	152	0.27	48383	86.68	715	58	0.10	53496	95.84
618	253	0.45	38862	69.62	667	150	0.27	48533	86.95	716	71	0.13	53567	95.97
619	248	0.44	39110	70.07	668	146	0.26	48679	87.21	717	67	0.12	53634	96.09
620	242	0.43	39352	70.50	669	159	0.28	48838	87.50	718	60	0.11	53694	96.19
621	217	0.39	39569	70.89	670	132	0.24	48970	87.73	719	58	0.10	53752	96.30
622	215	0.39	39784	71.27	671	129	0.23	49099	87.96	720	58	0.10	53810	96.40
623	259	0.46	40043	71.74	672	150	0.27	49249	88.23	721	56	0.10	53866	96.50
624	244	0.44	40287	72.18	673	138	0.25	49387	88.48	722	56	0.10	53922	96.60
625	227	0.41	40514	72.58	674	146	0.26	49533	88.74	723	72	0.13	53994	96.73
626	205	0.37	40719	72.95	675	139	0.25	49672	88.99	724	53	0.09	54047	96.83
627	236	0.42	40955	73.37	676	146	0.26	49818	89.25	725	44	0.08	54091	96.91
628	230	0.41	41185	73.78	677	118	0.21	49936	89.46	726	33	0.06	54124	96.97
629	221	0.40	41406	74.18	678	137	0.25	50073	89.71	727	32	0.06	54156	97.02
630	221	0.40	41627	74.58	679	114	0.20	50187	89.91	728	63	0.11	54219	97.14

**Table 187. Writing Grade 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. %
729	36	0.06	54255	97.20	778	13	0.02	55357	99.17	829	1	0.00	55652	99.70
730	32	0.06	54287	97.26	779	14	0.03	55371	99.20	830	3	0.01	55655	99.71
731	38	0.07	54325	97.33	780	24	0.04	55395	99.24	831	5	0.01	55660	99.72
732	30	0.05	54355	97.38	781	10	0.02	55405	99.26	832	6	0.01	55666	99.73
733	60	0.11	54415	97.49	782	12	0.02	55417	99.28	833	5	0.01	55671	99.74
734	32	0.06	54447	97.54	783	13	0.02	55430	99.30	834	1	0.00	55672	99.74
735	34	0.06	54481	97.60	784	10	0.02	55440	99.32	835	1	0.00	55673	99.74
736	33	0.06	54514	97.66	785	12	0.02	55452	99.34	836	5	0.01	55678	99.75
737	26	0.05	54540	97.71	786	2	0.00	55454	99.35	837	6	0.01	55684	99.76
738	37	0.07	54577	97.78	787	5	0.01	55459	99.36	838	8	0.01	55692	99.77
739	35	0.06	54612	97.84	788	7	0.01	55466	99.37	840	4	0.01	55696	99.78
740	37	0.07	54649	97.91	789	1	0.00	55467	99.37	841	3	0.01	55699	99.79
741	30	0.05	54679	97.96	790	14	0.03	55481	99.40	842	7	0.01	55706	99.80
742	20	0.04	54699	98.00	791	5	0.01	55486	99.41	843	1	0.00	55707	99.80
743	27	0.05	54726	98.04	792	9	0.02	55495	99.42	844	1	0.00	55708	99.80
744	18	0.03	54744	98.08	793	9	0.02	55504	99.44	847	6	0.01	55714	99.81
745	40	0.07	54784	98.15	794	4	0.01	55508	99.44	848	2	0.00	55716	99.82
746	13	0.02	54797	98.17	795	4	0.01	55512	99.45	849	2	0.00	55718	99.82
747	19	0.03	54816	98.20	796	11	0.02	55523	99.47	852	3	0.01	55721	99.83
748	38	0.07	54854	98.27	797	3	0.01	55526	99.48	853	5	0.01	55726	99.84
749	35	0.06	54889	98.34	798	8	0.01	55534	99.49	854	3	0.01	55729	99.84
750	18	0.03	54907	98.37	799	8	0.01	55542	99.51	855	5	0.01	55734	99.85
751	23	0.04	54930	98.41	800	2	0.00	55544	99.51	858	3	0.01	55737	99.85
752	15	0.03	54945	98.44	801	8	0.01	55552	99.52	864	1	0.00	55738	99.86
753	16	0.03	54961	98.46	802	10	0.02	55562	99.54	865	5	0.01	55743	99.87
754	24	0.04	54985	98.51	803	3	0.01	55565	99.55	867	6	0.01	55749	99.88
755	12	0.02	54997	98.53	804	3	0.01	55568	99.55	868	5	0.01	55754	99.89
756	17	0.03	55014	98.56	805	12	0.02	55580	99.57	870	1	0.00	55755	99.89
757	16	0.03	55030	98.59	806	2	0.00	55582	99.58	872	1	0.00	55756	99.89
758	14	0.03	55044	98.61	807	2	0.00	55584	99.58	884	2	0.00	55758	99.89
759	22	0.04	55066	98.65	808	6	0.01	55590	99.59	885	2	0.00	55760	99.90
760	18	0.03	55084	98.69	809	2	0.00	55592	99.60	886	9	0.02	55769	99.91
761	40	0.07	55124	98.76	810	1	0.00	55593	99.60	890	1	0.00	55770	99.91
762	16	0.03	55140	98.79	811	6	0.01	55599	99.61	893	2	0.00	55772	99.92
763	12	0.02	55152	98.81	812	4	0.01	55603	99.61	894	2	0.00	55774	99.92
764	17	0.03	55169	98.84	813	3	0.01	55606	99.62	895	2	0.00	55776	99.92
765	21	0.04	55190	98.87	814	1	0.00	55607	99.62	904	7	0.01	55783	99.94
766	19	0.03	55209	98.91	815	2	0.00	55609	99.63	906	1	0.00	55784	99.94
767	14	0.03	55223	98.93	816	3	0.01	55612	99.63	907	2	0.00	55786	99.94
768	11	0.02	55234	98.95	817	3	0.01	55615	99.64	910	1	0.00	55787	99.94
769	12	0.02	55246	98.98	818	3	0.01	55618	99.64	913	2	0.00	55789	99.95
770	14	0.03	55260	99.00	819	12	0.02	55630	99.66	918	2	0.00	55791	99.95
771	15	0.03	55275	99.03	820	4	0.01	55634	99.67	950	27	0.05	55818	100.00
772	14	0.03	55289	99.05	821	4	0.01	55638	99.68					
773	16	0.03	55305	99.08	822	1	0.00	55639	99.68					
774	8	0.01	55313	99.10	823	3	0.01	55642	99.68					
775	9	0.02	55322	99.11	824	1	0.00	55643	99.69					
776	11	0.02	55333	99.13	826	2	0.00	55645	99.69					
777	11	0.02	55344	99.15	828	6	0.01	55651	99.70					

**Table 188. Mathematics Grade 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	788	1.41	788	1.41	419	28	0.05	1550	2.77	468	62	0.11	3561	6.37
371	7	0.01	795	1.42	420	24	0.04	1574	2.82	469	67	0.12	3628	6.49
372	16	0.03	811	1.45	421	23	0.04	1597	2.86	470	67	0.12	3695	6.61
373	10	0.02	821	1.47	422	30	0.05	1627	2.91	471	59	0.11	3754	6.71
374	14	0.03	835	1.49	423	34	0.06	1661	2.97	472	68	0.12	3822	6.84
375	8	0.01	843	1.51	424	32	0.06	1693	3.03	473	60	0.11	3882	6.94
376	7	0.01	850	1.52	425	26	0.05	1719	3.07	474	67	0.12	3949	7.06
377	11	0.02	861	1.54	426	30	0.05	1749	3.13	475	56	0.10	4005	7.16
378	3	0.01	864	1.55	427	25	0.04	1774	3.17	476	75	0.13	4080	7.30
379	9	0.02	873	1.56	428	29	0.05	1803	3.22	477	77	0.14	4157	7.44
380	13	0.02	886	1.58	429	34	0.06	1837	3.29	478	85	0.15	4242	7.59
381	14	0.03	900	1.61	430	25	0.04	1862	3.33	479	72	0.13	4314	7.72
382	15	0.03	915	1.64	431	30	0.05	1892	3.38	480	78	0.14	4392	7.86
383	11	0.02	926	1.66	432	35	0.06	1927	3.45	481	88	0.16	4480	8.01
384	13	0.02	939	1.68	433	27	0.05	1954	3.49	482	67	0.12	4547	8.13
385	14	0.03	953	1.70	434	32	0.06	1986	3.55	483	83	0.15	4630	8.28
386	11	0.02	964	1.72	435	33	0.06	2019	3.61	484	79	0.14	4709	8.42
387	12	0.02	976	1.75	436	37	0.07	2056	3.68	485	106	0.19	4815	8.61
388	13	0.02	989	1.77	437	39	0.07	2095	3.75	486	87	0.16	4902	8.77
389	11	0.02	1000	1.79	438	38	0.07	2133	3.82	487	87	0.16	4989	8.92
390	13	0.02	1013	1.81	439	34	0.06	2167	3.88	488	91	0.16	5080	9.09
391	10	0.02	1023	1.83	440	38	0.07	2205	3.94	489	97	0.17	5177	9.26
392	15	0.03	1038	1.86	441	45	0.08	2250	4.02	490	104	0.19	5281	9.45
393	9	0.02	1047	1.87	442	45	0.08	2295	4.10	491	113	0.20	5394	9.65
394	14	0.03	1061	1.90	443	35	0.06	2330	4.17	492	110	0.20	5504	9.84
395	21	0.04	1082	1.94	444	35	0.06	2365	4.23	493	114	0.20	5618	10.05
396	19	0.03	1101	1.97	445	36	0.06	2401	4.29	494	94	0.17	5712	10.22
397	9	0.02	1110	1.99	446	40	0.07	2441	4.37	495	104	0.19	5816	10.40
398	23	0.04	1133	2.03	447	38	0.07	2479	4.43	496	127	0.23	5943	10.63
399	14	0.03	1147	2.05	448	41	0.07	2520	4.51	497	118	0.21	6061	10.84
400	13	0.02	1160	2.07	449	45	0.08	2565	4.59	498	109	0.19	6170	11.04
401	13	0.02	1173	2.10	450	40	0.07	2605	4.66	499	136	0.24	6306	11.28
402	17	0.03	1190	2.13	451	47	0.08	2652	4.74	500	123	0.22	6429	11.50
403	15	0.03	1205	2.16	452	62	0.11	2714	4.85	501	115	0.21	6544	11.70
404	20	0.04	1225	2.19	453	34	0.06	2748	4.92	502	114	0.20	6658	11.91
405	29	0.05	1254	2.24	454	49	0.09	2797	5.00	503	121	0.22	6779	12.12
406	21	0.04	1275	2.28	455	47	0.08	2844	5.09	504	129	0.23	6908	12.36
407	21	0.04	1296	2.32	456	43	0.08	2887	5.16	505	112	0.20	7020	12.56
408	22	0.04	1318	2.36	457	53	0.09	2940	5.26	506	136	0.24	7156	12.80
409	23	0.04	1341	2.40	458	53	0.09	2993	5.35	507	127	0.23	7283	13.03
410	24	0.04	1365	2.44	459	54	0.10	3047	5.45	508	151	0.27	7434	13.30
411	10	0.02	1375	2.46	460	57	0.10	3104	5.55	509	138	0.25	7572	13.54
412	28	0.05	1403	2.51	461	50	0.09	3154	5.64	510	136	0.24	7708	13.79
413	26	0.05	1429	2.56	462	64	0.11	3218	5.76	511	140	0.25	7848	14.04
414	15	0.03	1444	2.58	463	52	0.09	3270	5.85	512	172	0.31	8020	14.34
415	14	0.03	1458	2.61	464	54	0.10	3324	5.95	513	133	0.24	8153	14.58
416	15	0.03	1473	2.63	465	55	0.10	3379	6.04	514	187	0.33	8340	14.92
417	19	0.03	1492	2.67	466	61	0.11	3440	6.15	515	165	0.30	8505	15.21
418	30	0.05	1522	2.72	467	59	0.11	3499	6.26	516	132	0.24	8637	15.45



**Table 188. Mathematics Grade 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. %
517	180	0.32	8817	15.77	566	277	0.50	19873	35.54	615	292	0.52	34932	62.48
518	166	0.30	8983	16.07	567	280	0.50	20153	36.05	616	342	0.61	35274	63.09
519	145	0.26	9128	16.33	568	304	0.54	20457	36.59	617	332	0.59	35606	63.68
520	150	0.27	9278	16.59	569	287	0.51	20744	37.10	618	337	0.60	35943	64.29
521	145	0.26	9423	16.85	570	267	0.48	21011	37.58	619	302	0.54	36245	64.83
522	197	0.35	9620	17.21	571	273	0.49	21284	38.07	620	320	0.57	36565	65.40
523	178	0.32	9798	17.52	572	315	0.56	21599	38.63	621	306	0.55	36871	65.95
524	178	0.32	9976	17.84	573	279	0.50	21878	39.13	622	321	0.57	37192	66.52
525	178	0.32	10154	18.16	574	318	0.57	22196	39.70	623	316	0.57	37508	67.09
526	176	0.31	10330	18.48	575	322	0.58	22518	40.28	624	316	0.57	37824	67.65
527	170	0.30	10500	18.78	576	321	0.57	22839	40.85	625	295	0.53	38119	68.18
528	174	0.31	10674	19.09	577	304	0.54	23143	41.39	626	301	0.54	38420	68.72
529	163	0.29	10837	19.38	578	300	0.54	23443	41.93	627	293	0.52	38713	69.24
530	205	0.37	11042	19.75	579	324	0.58	23767	42.51	628	305	0.55	39018	69.79
531	221	0.40	11263	20.14	580	285	0.51	24052	43.02	629	281	0.50	39299	70.29
532	201	0.36	11464	20.50	581	299	0.53	24351	43.55	630	305	0.55	39604	70.84
533	212	0.38	11676	20.88	582	302	0.54	24653	44.09	631	298	0.53	39902	71.37
534	209	0.37	11885	21.26	583	303	0.54	24956	44.64	632	290	0.52	40192	71.89
535	216	0.39	12101	21.64	584	321	0.57	25277	45.21	633	296	0.53	40488	72.42
536	204	0.36	12305	22.01	585	280	0.50	25557	45.71	634	315	0.56	40803	72.98
537	187	0.33	12492	22.34	586	330	0.59	25887	46.30	635	280	0.50	41083	73.48
538	215	0.38	12707	22.73	587	312	0.56	26199	46.86	636	291	0.52	41374	74.00
539	215	0.38	12922	23.11	588	299	0.53	26498	47.39	637	287	0.51	41661	74.51
540	220	0.39	13142	23.51	589	305	0.55	26803	47.94	638	275	0.49	41936	75.01
541	217	0.39	13359	23.89	590	284	0.51	27087	48.45	639	305	0.55	42241	75.55
542	221	0.40	13580	24.29	591	324	0.58	27411	49.03	640	273	0.49	42514	76.04
543	239	0.43	13819	24.72	592	327	0.58	27738	49.61	641	270	0.48	42784	76.52
544	240	0.43	14059	25.15	593	311	0.56	28049	50.17	642	241	0.43	43025	76.95
545	231	0.41	14290	25.56	594	278	0.50	28327	50.67	643	273	0.49	43298	77.44
546	242	0.43	14532	25.99	595	316	0.57	28643	51.23	644	261	0.47	43559	77.91
547	231	0.41	14763	26.40	596	306	0.55	28949	51.78	645	258	0.46	43817	78.37
548	278	0.50	15041	26.90	597	310	0.55	29259	52.33	646	295	0.53	44112	78.90
549	268	0.48	15309	27.38	598	301	0.54	29560	52.87	647	278	0.50	44390	79.40
550	250	0.45	15559	27.83	599	317	0.57	29877	53.44	648	246	0.44	44636	79.84
551	270	0.48	15829	28.31	600	313	0.56	30190	54.00	649	250	0.45	44886	80.28
552	257	0.46	16086	28.77	601	293	0.52	30483	54.52	650	255	0.46	45141	80.74
553	247	0.44	16333	29.21	602	300	0.54	30783	55.06	651	236	0.42	45377	81.16
554	252	0.45	16585	29.66	603	315	0.56	31098	55.62	652	273	0.49	45650	81.65
555	252	0.45	16837	30.11	604	302	0.54	31400	56.16	653	243	0.43	45893	82.08
556	267	0.48	17104	30.59	605	324	0.58	31724	56.74	654	258	0.46	46151	82.55
557	268	0.48	17372	31.07	606	338	0.60	32062	57.35	655	259	0.46	46410	83.01
558	261	0.47	17633	31.54	607	296	0.53	32358	57.88	656	211	0.38	46621	83.39
559	248	0.44	17881	31.98	608	345	0.62	32703	58.49	657	207	0.37	46828	83.76
560	297	0.53	18178	32.51	609	327	0.58	33030	59.08	658	234	0.42	47062	84.17
561	294	0.53	18472	33.04	610	314	0.56	33344	59.64	659	226	0.40	47288	84.58
562	262	0.47	18734	33.51	611	307	0.55	33651	60.19	660	200	0.36	47488	84.94
563	283	0.51	19017	34.01	612	320	0.57	33971	60.76	661	208	0.37	47696	85.31
564	292	0.52	19309	34.54	613	332	0.59	34303	61.35	662	226	0.40	47922	85.71
565	287	0.51	19596	35.05	614	337	0.60	34640	61.96	663	232	0.41	48154	86.13

**Table 188. Mathematics Grade 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. %
664	217	0.39	48371	86.52	713	48	0.09	54624	97.70	762	9	0.02	55781	99.77
665	212	0.38	48583	86.90	714	61	0.11	54685	97.81	763	7	0.01	55788	99.78
666	204	0.36	48787	87.26	715	56	0.10	54741	97.91	764	2	0.00	55790	99.79
667	194	0.35	48981	87.61	716	49	0.09	54790	98.00	765	5	0.01	55795	99.79
668	207	0.37	49188	87.98	717	46	0.08	54836	98.08	766	7	0.01	55802	99.81
669	177	0.32	49365	88.29	718	39	0.07	54875	98.15	767	6	0.01	55808	99.82
670	202	0.36	49567	88.65	719	46	0.08	54921	98.23	768	5	0.01	55813	99.83
671	196	0.35	49763	89.01	720	57	0.10	54978	98.33	769	8	0.01	55821	99.84
672	173	0.31	49936	89.31	721	46	0.08	55024	98.42	770	2	0.00	55823	99.84
673	175	0.31	50111	89.63	722	37	0.07	55061	98.48	771	9	0.02	55832	99.86
674	165	0.30	50276	89.92	723	34	0.06	55095	98.54	772	3	0.01	55835	99.87
675	170	0.30	50446	90.23	724	42	0.08	55137	98.62	773	3	0.01	55838	99.87
676	177	0.32	50623	90.54	725	42	0.08	55179	98.69	774	6	0.01	55844	99.88
677	151	0.27	50774	90.81	726	32	0.06	55211	98.75	775	5	0.01	55849	99.89
678	163	0.29	50937	91.11	727	26	0.05	55237	98.80	776	3	0.01	55852	99.90
679	174	0.31	51111	91.42	728	46	0.08	55283	98.88	777	1	0.00	55853	99.90
680	149	0.27	51260	91.68	729	35	0.06	55318	98.94	778	1	0.00	55854	99.90
681	143	0.26	51403	91.94	730	23	0.04	55341	98.98	779	7	0.01	55861	99.91
682	144	0.26	51547	92.20	731	24	0.04	55365	99.03	780	2	0.00	55863	99.92
683	148	0.26	51695	92.46	732	26	0.05	55391	99.07	783	1	0.00	55864	99.92
684	137	0.25	51832	92.71	733	16	0.03	55407	99.10	784	2	0.00	55866	99.92
685	157	0.28	51989	92.99	734	18	0.03	55425	99.13	785	3	0.01	55869	99.93
686	128	0.23	52117	93.22	735	13	0.02	55438	99.16	786	3	0.01	55872	99.93
687	140	0.25	52257	93.47	736	14	0.03	55452	99.18	787	1	0.00	55873	99.93
688	137	0.25	52394	93.71	737	23	0.04	55475	99.22	788	3	0.01	55876	99.94
689	119	0.21	52513	93.92	738	27	0.05	55502	99.27	789	2	0.00	55878	99.94
690	144	0.26	52657	94.18	739	22	0.04	55524	99.31	790	1	0.00	55879	99.94
691	117	0.21	52774	94.39	740	22	0.04	55546	99.35	791	1	0.00	55880	99.95
692	102	0.18	52876	94.57	741	15	0.03	55561	99.38	792	2	0.00	55882	99.95
693	113	0.20	52989	94.78	742	17	0.03	55578	99.41	793	1	0.00	55883	99.95
694	103	0.18	53092	94.96	743	18	0.03	55596	99.44	794	1	0.00	55884	99.95
695	130	0.23	53222	95.19	744	15	0.03	55611	99.47	795	1	0.00	55885	99.96
696	105	0.19	53327	95.38	745	14	0.03	55625	99.49	797	3	0.01	55888	99.96
697	99	0.18	53426	95.56	746	11	0.02	55636	99.51	798	1	0.00	55889	99.96
698	102	0.18	53528	95.74	747	15	0.03	55651	99.54	799	1	0.00	55890	99.96
699	95	0.17	53623	95.91	748	9	0.02	55660	99.55	802	2	0.00	55892	99.97
700	91	0.16	53714	96.07	749	11	0.02	55671	99.57	806	1	0.00	55893	99.97
701	73	0.13	53787	96.20	750	15	0.03	55686	99.60	811	1	0.00	55894	99.97
702	87	0.16	53874	96.36	751	7	0.01	55693	99.61	812	1	0.00	55895	99.97
703	68	0.12	53942	96.48	752	14	0.03	55707	99.64	813	1	0.00	55896	99.97
704	82	0.15	54024	96.63	753	12	0.02	55719	99.66	814	1	0.00	55897	99.98
705	78	0.14	54102	96.77	754	7	0.01	55726	99.67	816	2	0.00	55899	99.98
706	76	0.14	54178	96.90	755	9	0.02	55735	99.69	817	2	0.00	55901	99.98
707	68	0.12	54246	97.02	756	8	0.01	55743	99.70	821	1	0.00	55902	99.99
708	78	0.14	54324	97.16	757	5	0.01	55748	99.71	823	1	0.00	55903	99.99
709	74	0.13	54398	97.30	758	3	0.01	55751	99.72	832	1	0.00	55904	99.99
710	67	0.12	54465	97.42	759	9	0.02	55760	99.73	836	1	0.00	55905	99.99
711	61	0.11	54526	97.52	760	6	0.01	55766	99.74	839	1	0.00	55906	99.99
712	50	0.09	54576	97.61	761	6	0.01	55772	99.75	847	1	0.00	55907	99.99

**Table 188. Mathematics Grade 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>
851	1	0.00	55908	100.00
871	1	0.00	55909	100.00
909	1	0.00	55910	100.00

**Table 189. Science Grade 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	760	1.36	760	1.36	349	22	0.04	1469	2.63	398	86	0.15	3847	6.89
301	7	0.01	767	1.37	350	19	0.03	1488	2.66	399	80	0.14	3927	7.03
302	4	0.01	771	1.38	351	29	0.05	1517	2.72	400	75	0.13	4002	7.16
303	8	0.01	779	1.39	352	27	0.05	1544	2.76	401	81	0.15	4083	7.31
304	15	0.03	794	1.42	353	46	0.08	1590	2.85	402	82	0.15	4165	7.46
305	9	0.02	803	1.44	354	33	0.06	1623	2.91	403	91	0.16	4256	7.62
306	5	0.01	808	1.45	355	24	0.04	1647	2.95	404	98	0.18	4354	7.79
307	2	0.00	810	1.45	356	23	0.04	1670	2.99	405	90	0.16	4444	7.96
308	11	0.02	821	1.47	357	33	0.06	1703	3.05	406	96	0.17	4540	8.13
309	10	0.02	831	1.49	358	32	0.06	1735	3.11	407	97	0.17	4637	8.30
310	9	0.02	840	1.50	359	28	0.05	1763	3.16	408	96	0.17	4733	8.47
311	9	0.02	849	1.52	360	30	0.05	1793	3.21	409	97	0.17	4830	8.65
312	11	0.02	860	1.54	361	31	0.06	1824	3.27	410	110	0.20	4940	8.84
313	4	0.01	864	1.55	362	38	0.07	1862	3.33	411	94	0.17	5034	9.01
314	8	0.01	872	1.56	363	35	0.06	1897	3.40	412	75	0.13	5109	9.15
315	9	0.02	881	1.58	364	26	0.05	1923	3.44	413	105	0.19	5214	9.33
316	13	0.02	894	1.60	365	32	0.06	1955	3.50	414	100	0.18	5314	9.51
317	9	0.02	903	1.62	366	34	0.06	1989	3.56	415	111	0.20	5425	9.71
318	11	0.02	914	1.64	367	43	0.08	2032	3.64	416	132	0.24	5557	9.95
319	8	0.01	922	1.65	368	42	0.08	2074	3.71	417	121	0.22	5678	10.16
320	17	0.03	939	1.68	369	39	0.07	2113	3.78	418	100	0.18	5778	10.34
321	17	0.03	956	1.71	370	49	0.09	2162	3.87	419	113	0.20	5891	10.55
322	12	0.02	968	1.73	371	53	0.09	2215	3.97	420	99	0.18	5990	10.72
323	12	0.02	980	1.75	372	54	0.10	2269	4.06	421	115	0.21	6105	10.93
324	14	0.03	994	1.78	373	44	0.08	2313	4.14	422	127	0.23	6232	11.16
325	15	0.03	1009	1.81	374	54	0.10	2367	4.24	423	156	0.28	6388	11.44
326	14	0.03	1023	1.83	375	53	0.09	2420	4.33	424	126	0.23	6514	11.66
327	16	0.03	1039	1.86	376	55	0.10	2475	4.43	425	150	0.27	6664	11.93
328	10	0.02	1049	1.88	377	48	0.09	2523	4.52	426	131	0.23	6795	12.16
329	12	0.02	1061	1.90	378	47	0.08	2570	4.60	427	134	0.24	6929	12.40
330	13	0.02	1074	1.92	379	51	0.09	2621	4.69	428	125	0.22	7054	12.63
331	16	0.03	1090	1.95	380	48	0.09	2669	4.78	429	143	0.26	7197	12.88
332	14	0.03	1104	1.98	381	43	0.08	2712	4.85	430	144	0.26	7341	13.14
333	15	0.03	1119	2.00	382	53	0.09	2765	4.95	431	141	0.25	7482	13.39
334	19	0.03	1138	2.04	383	56	0.10	2821	5.05	432	152	0.27	7634	13.67
335	16	0.03	1154	2.07	384	51	0.09	2872	5.14	433	141	0.25	7775	13.92
336	27	0.05	1181	2.11	385	50	0.09	2922	5.23	434	126	0.23	7901	14.14
337	14	0.03	1195	2.14	386	60	0.11	2982	5.34	435	165	0.30	8066	14.44
338	19	0.03	1214	2.17	387	57	0.10	3039	5.44	436	148	0.26	8214	14.70
339	28	0.05	1242	2.22	388	65	0.12	3104	5.56	437	148	0.26	8362	14.97
340	22	0.04	1264	2.26	389	58	0.10	3162	5.66	438	149	0.27	8511	15.24
341	15	0.03	1279	2.29	390	83	0.15	3245	5.81	439	174	0.31	8685	15.55
342	23	0.04	1302	2.33	391	75	0.13	3320	5.94	440	176	0.32	8861	15.86
343	22	0.04	1324	2.37	392	66	0.12	3386	6.06	441	173	0.31	9034	16.17
344	25	0.04	1349	2.41	393	76	0.14	3462	6.20	442	163	0.29	9197	16.46
345	28	0.05	1377	2.47	394	68	0.12	3530	6.32	443	164	0.29	9361	16.76
346	33	0.06	1410	2.52	395	75	0.13	3605	6.45	444	162	0.29	9523	17.05
347	22	0.04	1432	2.56	396	69	0.12	3674	6.58	445	204	0.37	9727	17.41
348	15	0.03	1447	2.59	397	87	0.16	3761	6.73	446	182	0.33	9909	17.74

**Table 189. Science Grade 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. %
447	195	0.35	10104	18.09	496	374	0.67	23576	42.20	545	363	0.65	42552	76.17
448	209	0.37	10313	18.46	497	366	0.66	23942	42.86	546	382	0.68	42934	76.86
449	171	0.31	10484	18.77	498	375	0.67	24317	43.53	547	349	0.62	43283	77.48
450	196	0.35	10680	19.12	499	329	0.59	24646	44.12	548	322	0.58	43605	78.06
451	197	0.35	10877	19.47	500	375	0.67	25021	44.79	549	341	0.61	43946	78.67
452	221	0.40	11098	19.87	501	377	0.67	25398	45.47	550	338	0.61	44284	79.28
453	192	0.34	11290	20.21	502	399	0.71	25797	46.18	551	320	0.57	44604	79.85
454	201	0.36	11491	20.57	503	362	0.65	26159	46.83	552	324	0.58	44928	80.43
455	211	0.38	11702	20.95	504	372	0.67	26531	47.49	553	310	0.55	45238	80.98
456	211	0.38	11913	21.33	505	380	0.68	26911	48.17	554	341	0.61	45579	81.59
457	259	0.46	12172	21.79	506	351	0.63	27262	48.80	555	317	0.57	45896	82.16
458	243	0.44	12415	22.22	507	389	0.70	27651	49.50	556	282	0.50	46178	82.67
459	230	0.41	12645	22.64	508	387	0.69	28038	50.19	557	300	0.54	46478	83.20
460	236	0.42	12881	23.06	509	346	0.62	28384	50.81	558	312	0.56	46790	83.76
461	235	0.42	13116	23.48	510	413	0.74	28797	51.55	559	323	0.58	47113	84.34
462	233	0.42	13349	23.90	511	428	0.77	29225	52.32	560	270	0.48	47383	84.82
463	232	0.42	13581	24.31	512	427	0.76	29652	53.08	561	278	0.50	47661	85.32
464	234	0.42	13815	24.73	513	426	0.76	30078	53.84	562	277	0.50	47938	85.82
465	253	0.45	14068	25.18	514	385	0.69	30463	54.53	563	285	0.51	48223	86.33
466	253	0.45	14321	25.64	515	420	0.75	30883	55.29	564	265	0.47	48488	86.80
467	254	0.45	14575	26.09	516	390	0.70	31273	55.98	565	264	0.47	48752	87.27
468	252	0.45	14827	26.54	517	427	0.76	31700	56.75	566	241	0.43	48993	87.71
469	258	0.46	15085	27.00	518	430	0.77	32130	57.52	567	251	0.45	49244	88.15
470	276	0.49	15361	27.50	519	453	0.81	32583	58.33	568	266	0.48	49510	88.63
471	294	0.53	15655	28.02	520	425	0.76	33008	59.09	569	226	0.40	49736	89.04
472	274	0.49	15929	28.52	521	369	0.66	33377	59.75	570	238	0.43	49974	89.46
473	260	0.47	16189	28.98	522	396	0.71	33773	60.46	571	226	0.40	50200	89.87
474	291	0.52	16480	29.50	523	379	0.68	34152	61.14	572	219	0.39	50419	90.26
475	303	0.54	16783	30.04	524	387	0.69	34539	61.83	573	214	0.38	50633	90.64
476	285	0.51	17068	30.55	525	400	0.72	34939	62.55	574	209	0.37	50842	91.02
477	266	0.48	17334	31.03	526	430	0.77	35369	63.32	575	212	0.38	51054	91.39
478	265	0.47	17599	31.50	527	382	0.68	35751	64.00	576	208	0.37	51262	91.77
479	280	0.50	17879	32.01	528	415	0.74	36166	64.74	577	175	0.31	51437	92.08
480	292	0.52	18171	32.53	529	383	0.69	36549	65.43	578	165	0.30	51602	92.38
481	327	0.59	18498	33.11	530	408	0.73	36957	66.16	579	192	0.34	51794	92.72
482	277	0.50	18775	33.61	531	416	0.74	37373	66.90	580	171	0.31	51965	93.03
483	300	0.54	19075	34.15	532	374	0.67	37747	67.57	581	190	0.34	52155	93.37
484	346	0.62	19421	34.77	533	394	0.71	38141	68.28	582	177	0.32	52332	93.68
485	317	0.57	19738	35.33	534	386	0.69	38527	68.97	583	178	0.32	52510	94.00
486	311	0.56	20049	35.89	535	398	0.71	38925	69.68	584	161	0.29	52671	94.29
487	311	0.56	20360	36.45	536	365	0.65	39290	70.34	585	137	0.25	52808	94.53
488	351	0.63	20711	37.08	537	329	0.59	39619	70.92	586	143	0.26	52951	94.79
489	360	0.64	21071	37.72	538	396	0.71	40015	71.63	587	131	0.23	53082	95.03
490	343	0.61	21414	38.33	539	367	0.66	40382	72.29	588	147	0.26	53229	95.29
491	336	0.60	21750	38.94	540	376	0.67	40758	72.96	589	117	0.21	53346	95.50
492	366	0.66	22116	39.59	541	374	0.67	41132	73.63	590	115	0.21	53461	95.70
493	380	0.68	22496	40.27	542	335	0.60	41467	74.23	591	123	0.22	53584	95.92
494	361	0.65	22857	40.92	543	364	0.65	41831	74.88	592	121	0.22	53705	96.14
495	345	0.62	23202	41.54	544	358	0.64	42189	75.52	593	105	0.19	53810	96.33

**Table 189. Science Grade 10 Scale Score Distribution (Concluded)**

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

SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
594	113	0.20	53923	96.53	643	5	0.01	55773	99.84
595	105	0.19	54028	96.72	644	6	0.01	55779	99.85
596	97	0.17	54125	96.89	645	8	0.01	55787	99.87
597	87	0.16	54212	97.05	646	4	0.01	55791	99.87
598	84	0.15	54296	97.20	647	4	0.01	55795	99.88
599	76	0.14	54372	97.33	648	2	0.00	55797	99.89
600	72	0.13	54444	97.46	649	6	0.01	55803	99.90
601	75	0.13	54519	97.60	650	4	0.01	55807	99.90
602	67	0.12	54586	97.72	651	4	0.01	55811	99.91
603	76	0.14	54662	97.85	652	3	0.01	55814	99.92
604	63	0.11	54725	97.97	653	1	0.00	55815	99.92
605	63	0.11	54788	98.08	654	3	0.01	55818	99.92
606	68	0.12	54856	98.20	655	3	0.01	55821	99.93
607	55	0.10	54911	98.30	656	5	0.01	55826	99.94
608	59	0.11	54970	98.40	657	3	0.01	55829	99.94
609	52	0.09	55022	98.50	658	1	0.00	55830	99.94
610	46	0.08	55068	98.58	659	1	0.00	55831	99.95
611	40	0.07	55108	98.65	661	2	0.00	55833	99.95
612	43	0.08	55151	98.73	662	3	0.01	55836	99.96
613	50	0.09	55201	98.82	663	1	0.00	55837	99.96
614	42	0.08	55243	98.89	664	2	0.00	55839	99.96
615	31	0.06	55274	98.95	665	2	0.00	55841	99.96
616	35	0.06	55309	99.01	666	1	0.00	55842	99.97
617	35	0.06	55344	99.07	667	3	0.01	55845	99.97
618	23	0.04	55367	99.12	668	3	0.01	55848	99.98
619	41	0.07	55408	99.19	669	2	0.00	55850	99.98
620	21	0.04	55429	99.23	671	1	0.00	55851	99.98
621	28	0.05	55457	99.28	672	1	0.00	55852	99.98
622	27	0.05	55484	99.33	673	1	0.00	55853	99.99
623	25	0.04	55509	99.37	674	2	0.00	55855	99.99
624	29	0.05	55538	99.42	676	1	0.00	55856	99.99
625	13	0.02	55551	99.45	680	1	0.00	55857	99.99
626	21	0.04	55572	99.48	682	1	0.00	55858	99.99
627	23	0.04	55595	99.52	687	1	0.00	55859	100.00
628	15	0.03	55610	99.55	688	1	0.00	55860	100.00
629	19	0.03	55629	99.58	707	1	0.00	55861	100.00
630	14	0.03	55643	99.61					
631	16	0.03	55659	99.64					
632	15	0.03	55674	99.67					
633	16	0.03	55690	99.69					
634	15	0.03	55705	99.72					
635	8	0.01	55713	99.74					
636	13	0.02	55726	99.76					
637	8	0.01	55734	99.77					
638	11	0.02	55745	99.79					
639	5	0.01	55750	99.80					
640	7	0.01	55757	99.81					
641	6	0.01	55763	99.82					
642	5	0.01	55768	99.83					

**Table 190. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 3**

<b>Nam</b>	<b>CS1</b>	<b>SA1/4</b>	<b>SA2</b>	<b>SA3</b>	<b>Total</b>
Mean	558.5	560.3	557.3	591.1	558.5
STD	78.29	88.80	95.57	137.0	78.29
N	5984	5984	5984	5984	5984
CS1		0.906	0.880	0.755	1.000
SA1/4			0.721	0.606	0.906
SA2				0.589	0.880
SA3					0.755

**Table 191. Scale Score Correlations by Content Standard and Subcontent Area, 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	586.6	581.5	583.4	591.3	587.1	580.3	636.3	586.2
STD	78.63	102.9	95.62	87.58	74.90	98.51	173.2	68.27
N	59552	59552	59552	59552	59552	59552	59552	59552
CS1		0.733	0.707	0.738	0.859	0.844	0.695	0.926
CS4			0.645	0.669	0.808	0.773	0.551	0.833
CS5				0.636	0.700	0.660	0.551	0.806
CS6					0.878	0.682	0.595	0.847
SA1/4						0.753	0.599	0.940
SA2							0.554	0.851
SA3								0.695

**Table 192. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 5**

<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	611.7	608.5	612.2	612.3	612.1	609.2	627.4	610.8
STD	81.49	99.53	100.4	82.51	79.51	81.22	127.2	69.68
N	58761	58761	58761	58761	58761	58761	58761	58761
CS1		0.729	0.711	0.766	0.826	0.848	0.773	0.920
CS4			0.655	0.708	0.821	0.773	0.596	0.835
CS5				0.669	0.700	0.802	0.603	0.814
CS6					0.883	0.803	0.587	0.889
SA1/4						0.782	0.620	0.924
SA2							0.630	0.909
SA3								0.737

**Table 193. Scale Score Correlations by Content Standard and Subcontent Area,  
Reading Grade 6**

Name	CS1	CS4	CS5	CS6	SA1/4	SA2	SA3	Total
Mean	627.4	632.7	624.9	619.7	624.5	627.1	653.7	627.2
STD	77.70	94.76	92.06	94.05	80.70	86.88	127.4	68.75
N	57601	57601	57601	57601	57601	57601	57601	57601
CS1		0.706	0.726	0.747	0.841	0.818	0.742	0.915
CS4			0.640	0.655	0.775	0.770	0.565	0.813
CS5				0.675	0.719	0.686	0.563	0.836
CS6					0.878	0.735	0.552	0.845
SA1/4						0.754	0.605	0.918
SA2							0.568	0.860
SA3								0.701

**Table 194. Scale Score Correlations by Content Standard and Subcontent Area,  
Reading Grade 7**

Name	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
Mean	638.9	641.3	636.7	640.1	639.8	629.8	649.8	639.6	638.5
STD	75.60	84.21	91.97	89.82	79.43	121.1	113.7	90.41	67.38
N	57386	57386	57386	57386	57386	57386	57386	57386	57386
CS1		0.755	0.736	0.744	0.811	0.727	0.792	0.798	0.933
CS4			0.682	0.703	0.857	0.683	0.617	0.687	0.863
CS5				0.672	0.708	0.607	0.593	0.694	0.840
CS6					0.861	0.586	0.583	0.780	0.852
SA1						0.618	0.623	0.717	0.907
SA2							0.526	0.589	0.743
SA3								0.574	0.748
SA4									0.836

**Table 195. Scale Score Correlations by Content Standard and Subcontent Area,  
Reading Grade 8**

Name	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
Mean	649.1	647.6	651.4	646.1	647.5	648.8	659.5	636.9	647.1
STD	68.76	76.35	79.49	75.11	68.30	78.71	111.3	124.8	59.42
N	57087	57087	57087	57087	57087	57087	57087	57087	57087
CS1		0.742	0.727	0.734	0.782	0.863	0.764	0.566	0.917
CS4			0.682	0.727	0.836	0.775	0.580	0.569	0.871
CS5				0.668	0.697	0.691	0.563	0.501	0.846
CS6					0.913	0.673	0.574	0.575	0.866
SA1						0.703	0.590	0.519	0.906
SA2							0.559	0.504	0.857
SA3								0.418	0.715
SA4									0.626



**Table 196. Scale Score Correlations by Content Standard and Subcontent Area,  
Reading Grade 9**

Name	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
Mean	658.9	657.0	657.2	659.3	669.3	657.7	660.2	652.4	658.9
STD	63.09	69.28	82.92	68.61	95.99	61.76	79.45	87.83	54.14
N	58923	58923	58923	58923	58923	58923	58923	58923	58923
CS1		0.758	0.690	0.741	0.643	0.900	0.841	0.686	0.920
CS4			0.649	0.709	0.668	0.858	0.669	0.679	0.867
CS5				0.642	0.547	0.725	0.624	0.596	0.792
CS6					0.735	0.737	0.670	0.848	0.856
SA1						0.617	0.586	0.552	0.729
SA2							0.701	0.696	0.928
SA3								0.604	0.802
SA4									0.788

**Table 197. Scale Score Correlations by Content Standard and Subcontent Area,  
Reading Grade 10**

Name	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
Mean	685.1	678.4	689.3	687.1	684.7	677.5	700.5	718.7	684.9
STD	64.50	81.71	80.66	74.22	66.35	80.65	103.5	155.0	54.96
N	55723	55723	55723	55723	55723	55723	55723	55723	55723
CS1		0.742	0.691	0.727	0.820	0.808	0.740	0.573	0.910
CS4			0.630	0.692	0.788	0.826	0.565	0.519	0.843
CS5				0.637	0.664	0.627	0.612	0.533	0.803
CS6					0.865	0.688	0.576	0.714	0.848
SA1						0.736	0.590	0.561	0.899
SA2							0.555	0.523	0.843
SA3								0.498	0.719
SA4									0.661

**Table 198. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 3**

<b>Nam</b>	<b>CS2</b>	<b>CS3</b>	<b>SA5</b>	<b>SA7</b>	<b>SA8</b>	<b>Total</b>
Mean	469.2	481.0	470.7	490.7	509.2	468.4
STD	58.98	77.65	60.83	99.90	114.5	51.80
N	5993	5993	5993	5993	5993	5993
CS2		0.638	0.947	0.590	0.543	0.909
CS3			0.608	0.841	0.746	0.839
SA5				0.542	0.519	0.866
SA7					0.504	0.766
SA8						0.712

**Table 199. Scale Score Correlations by Content Standard and Subcontent Area, 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	486.2	492.0	486.9	503.9	499.5	511.0	484.9
STD	57.70	69.78	63.97	106.7	86.56	115.4	52.67
N	59548	59548	59548	59548	59548	59548	59548
CS2		0.685	0.911	0.676	0.623	0.570	0.930
CS3			0.635	0.396	0.866	0.777	0.871
SA5				0.466	0.572	0.543	0.853
SA6					0.339	0.333	0.590
SA7						0.515	0.784
SA8							0.726

**Table 200. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 5**

<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	509.4	511.1	509.8	535.9	514.5	513.0	507.8
STD	61.01	64.30	65.91	117.3	79.86	85.23	55.28
N	58785	58785	58785	58785	58785	58785	58785
CS2		0.725	0.938	0.681	0.710	0.641	0.930
CS3			0.680	0.468	0.797	0.887	0.913
SA5				0.501	0.620	0.604	0.872
SA6					0.398	0.408	0.622
SA7						0.597	0.809
SA8							0.815

**Table 201. 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	529.0	531.2	530.3	545.2	529.8	545.5	527.7
STD	65.51	70.59	73.89	114.9	78.59	108.7	59.51
N	57379	57379	57379	57379	57379	57379	57379
CS2		0.721	0.887	0.736	0.700	0.658	0.917
CS3			0.647	0.464	0.914	0.751	0.921
SA5				0.495	0.612	0.563	0.818
SA6					0.415	0.390	0.629
SA7						0.615	0.875
SA8							0.761

**Table 202. 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	560.8	561.1	561.9	575.3	564.8	566.5	558.4
STD	75.03	78.44	84.14	118.3	90.65	102.5	68.19
N	57395	57395	57395	57395	57395	57395	57395
CS2		0.736	0.895	0.756	0.710	0.685	0.930
CS3			0.662	0.491	0.906	0.850	0.923
SA5				0.536	0.618	0.592	0.835
SA6					0.435	0.422	0.663
SA7						0.681	0.862
SA8							0.822

**Table 203. 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	562.0	565.0	564.1	582.3	567.9	579.1	560.4
STD	74.61	80.91	87.34	116.2	95.99	121.2	68.35
N	57100	57100	57100	57100	57100	57100	57100
CS2		0.727	0.872	0.715	0.662	0.663	0.938
CS3			0.635	0.450	0.908	0.787	0.906
SA5				0.486	0.584	0.537	0.817
SA6					0.387	0.370	0.634
SA7						0.604	0.828
SA8							0.774

**Table 204. 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	568.4	569.0	572.1	589.5	569.4	570.2	566.1
STD	84.23	85.87	95.90	130.3	103.3	107.6	76.87
N	58939	58939	58939	58939	58939	58939	58939
CS2		0.769	0.893	0.771	0.741	0.712	0.934
CS3			0.689	0.533	0.905	0.881	0.938
SA5				0.538	0.646	0.633	0.837
SA6					0.472	0.471	0.684
SA7						0.718	0.873
SA8							0.846

**Table 205. 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	581.1	581.4	584.1	595.7	583.3	587.7	578.6
STD	88.50	91.48	102.3	119.7	100.1	117.0	80.99
N	55818	55818	55818	55818	55818	55818	55818
CS2		0.750	0.897	0.800	0.746	0.651	0.928
CS3			0.687	0.553	0.919	0.854	0.931
SA5				0.564	0.664	0.595	0.841
SA6					0.491	0.449	0.715
SA7						0.703	0.890
SA8							0.806

**Table 206. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 3**

Name	CS1	CS2/3	CS4/5	CS6	Total
Mean	466.9	477.5	467.4	465.5	459.0
STD	122.6	125.4	104.1	112.4	87.13
N	61298	61298	61298	61298	61298
CS1		0.640	0.635	0.637	0.829
CS2/3			0.652	0.624	0.844
CS4/5				0.634	0.858
CS6					0.840

**Table 207. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 4**

Name	CS1	CS2	CS3	CS4/5	CS6	SA1	SA2	SA3	Total
Mean	500.9	511.3	499.7	495.9	515.4	501.3	515.5	516.3	491.8
STD	104.0	126.7	110.6	94.22	128.3	102.8	135.6	135.1	80.39
N	59818	59818	59818	59818	59818	59818	59818	59818	59818
CS1		0.685	0.665	0.728	0.659	0.914	0.664	0.615	0.864
CS2			0.635	0.684	0.629	0.685	0.947	0.586	0.824
CS3				0.701	0.615	0.670	0.615	0.584	0.826
CS4/5					0.660	0.728	0.661	0.821	0.900
CS6						0.744	0.615	0.542	0.805
SA1							0.666	0.610	0.867
SA2								0.562	0.797
SA3									0.747

**Table 208. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 5**

Name	CS1	CS2	CS3	CS4/5	CS6	SA1	SA2	SA3	Total
Mean	518.8	519.5	519.1	514.4	523.7	522.3	524.2	527.2	515.4
STD	94.44	101.4	95.02	96.41	99.27	100.8	110.7	112.2	78.09
N	58839	58839	58839	58839	58839	58839	58839	58839	58839
CS1		0.754	0.748	0.737	0.729	0.903	0.728	0.681	0.893
CS2			0.742	0.733	0.731	0.724	0.955	0.679	0.888
CS3				0.741	0.715	0.723	0.719	0.896	0.883
CS4/5					0.698	0.714	0.707	0.674	0.876
CS6						0.738	0.711	0.649	0.863
SA1							0.700	0.658	0.857
SA2								0.660	0.858
SA3									0.801

**Table 209. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 6**

Name	CS1	CS2	CS3	CS4/5	CS6	SA1	SA2	SA3	Total
Mean	532.3	548.4	542.0	541.2	541.2	532.8	551.0	542.8	539.9
STD	111.9	103.4	95.75	92.67	116.2	109.3	107.7	106.0	77.92
N	57683	57683	57683	57683	57683	57683	57683	57683	57683
CS1		0.672	0.707	0.718	0.668	0.894	0.650	0.682	0.850
CS2			0.716	0.719	0.669	0.689	0.965	0.683	0.842
CS3				0.757	0.695	0.726	0.691	0.720	0.884
CS4/5					0.705	0.736	0.695	0.944	0.903
CS6						0.754	0.646	0.670	0.829
SA1							0.666	0.702	0.867
SA2								0.662	0.814
SA3									0.858

**Table 210. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 7**

Name	CS1/6	CS2	CS3	CS4/5	SA1	SA2	Total
Mean	561.6	564.6	557.0	558.1	569.0	557.5	561.4
STD	84.62	96.04	91.31	87.63	130.4	100.1	73.62
N	57393	57393	57393	57393	57393	57393	57393
CS1/6		0.751	0.780	0.795	0.840	0.736	0.929
CS2			0.717	0.727	0.652	0.672	0.858
CS3				0.758	0.687	0.705	0.883
CS4/5					0.688	0.926	0.906
SA1						0.641	0.802
SA2							0.839

**Table 211. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 8**

Name	CS1/6	CS2	CS3	CS4/5	SA1	SA2	SA3	Total
Mean	566.1	572.9	572.1	569.5	570.6	564.3	567.7	572.7
STD	86.00	78.00	80.22	72.37	89.06	90.33	76.50	62.60
N	57138	57138	57138	57138	57138	57138	57138	57138
CS1/6		0.705	0.707	0.731	0.657	0.762	0.686	0.846
CS2			0.735	0.757	0.934	0.702	0.714	0.889
CS3				0.754	0.684	0.720	0.710	0.880
CS4/5					0.711	0.795	0.949	0.913
SA1						0.651	0.674	0.832
SA2							0.682	0.834
SA3								0.861

**Table 212. 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	552.6	568.3	566.2	554.0	569.1	550.7	568.4
STD	107.5	81.36	86.23	101.4	82.09	106.3	75.83
N	59050	59050	59050	59050	59050	59050	59050
CS1/6		0.675	0.666	0.632	0.670	0.708	0.756
CS2			0.808	0.742	0.965	0.741	0.946
CS3				0.726	0.827	0.794	0.910
CS4/5					0.768	0.756	0.840
SA1						0.738	0.942
SA2							0.838

**Table 213. 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	579.8	583.4	585.8	581.6	586.0	568.2	587.2
STD	93.49	85.05	83.22	86.28	79.95	121.7	73.16
N	55910	55910	55910	55910	55910	55910	55910
CS1/6		0.696	0.671	0.666	0.708	0.535	0.805
CS2			0.769	0.766	0.929	0.578	0.926
CS3				0.731	0.835	0.762	0.890
CS4/5					0.819	0.562	0.879
SA1						0.590	0.943
SA2							0.671

**Table 214. Scale Score Correlations by Content Standard and Subcontent Area,  
Science Grade 5**

Name	CS1/5	CS2	CS3	CS4	SA1	SA2	Total
Mean	498.1	499.1	500.2	498.7	505.3	501.4	496.1
STD	73.60	85.78	81.07	77.88	95.68	95.54	64.97
N	58812	58812	58812	58812	58812	58812	58812
CS1/5		0.715	0.696	0.712	0.870	0.841	0.926
CS2			0.650	0.688	0.628	0.605	0.849
CS3				0.672	0.611	0.580	0.825
CS4					0.628	0.597	0.857
SA1						0.596	0.811
SA2							0.776

**Table 215. Scale Score Correlations by Content Standard and Subcontent Area,  
Science Grade 8**

Name	CS1/5	CS2	CS3	CS4	SA1	SA2	SA3	SA5	SA6	Total
Mean	499.7	492.0	497.3	493.4	498.4	501.2	491.2	496.8	494.0	499.4
STD	66.62	84.92	73.05	81.58	78.30	75.22	89.08	74.25	85.70	62.54
N	57084	57084	57084	57084	57084	57084	57084	57084	57084	57084
CS1/5		0.721	0.761	0.726	0.883	0.926	0.685	0.737	0.704	0.958
CS2			0.651	0.627	0.642	0.666	0.935	0.633	0.608	0.807
CS3				0.674	0.674	0.702	0.619	0.971	0.652	0.865
CS4					0.646	0.667	0.598	0.659	0.951	0.820
SA1						0.707	0.611	0.657	0.628	0.843
SA2							0.631	0.677	0.648	0.885
SA3								0.601	0.580	0.766
SA5									0.638	0.841
SA6										0.793

**Table 216. Scale Score Correlations by Content Standard and Subcontent Area,  
Science Grade 10**

Name	CS1/5	CS2	CS3	CS4	SA1	SA2	SA4	SA5	SA6	Total
Mean	500.6	491.8	496.1	499.3	500.6	509.0	492.6	491.7	499.2	499.9
STD	67.85	84.28	78.05	74.08	79.58	91.13	106.0	88.31	84.69	62.75
N	55861	55861	55861	55861	55861	55861	55861	55861	55861	55861
CS1/5		0.716	0.728	0.730	0.897	0.849	0.633	0.664	0.646	0.944
CS2			0.649	0.678	0.640	0.614	0.832	0.594	0.608	0.818
CS3				0.690	0.659	0.611	0.581	0.893	0.610	0.834
CS4					0.653	0.619	0.594	0.628	0.890	0.855
SA1						0.652	0.568	0.603	0.577	0.843
SA2							0.546	0.559	0.549	0.797
SA4								0.534	0.534	0.724
SA5									0.557	0.760
SA6										0.759



**Table 217. Scale Score Correlations by Content Standard and Subcontent Area,  
Spanish Reading Grade 3**

<b>Nam</b>	<b>CS1</b>	<b>SA1/4</b>	<b>SA2</b>	<b>SA3</b>	<b>Total</b>
Mean	522.9	522.6	523.3	522.7	522.9
STD	48.34	59.96	64.57	72.66	48.34
N	1362	1362	1362	1362	1362
CS1		0.899	0.838	0.786	1.000
SA1/4			0.645	0.617	0.899
SA2				0.596	0.838
SA3					0.786

**Table 218. Scale Score Correlations by Content Standard and Subcontent Area,  
Spanish Reading Grade 4**

<b>Nam</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	518.5	507.4	520.7	514.2	514.5	517.2	519.2	517.5
STD	52.90	63.17	70.93	58.33	52.94	57.66	81.05	50.22
N	166	166	166	166	166	166	166	166
CS1		0.724	0.721	0.665	0.851	0.827	0.690	0.880
CS4			0.630	0.622	0.800	0.804	0.518	0.835
CS5				0.634	0.756	0.668	0.525	0.852
CS6					0.817	0.583	0.492	0.769
SA1/4						0.697	0.571	0.954
SA2							0.509	0.799
SA3								0.641

**Table 219. Scale Score Correlations by Content Standard and Subcontent Area,  
Spanish Writing Grade 3**

Name	CS2	CS3	SA5	SA7	SA8	Total
Mean	532.1	518.1	559.7	515.9	524.2	521.7
STD	75.50	80.28	91.72	94.45	122.6	69.45
N	1351	1351	1351	1351	1351	1351
CS2		0.728	0.870	0.666	0.623	0.921
CS3			0.617	0.912	0.831	0.928
SA5				0.515	0.562	0.798
SA7					0.601	0.851
SA8						0.787

**Table 220. Scale Score Correlations by Content Standard and Subcontent Area,  
Spanish Writing Grade 4**

Name	CS2	CS3	SA5	SA6	SA7	SA8	Total
Mean	502.4	512.7	509.4	510.2	514.2	500.6	508.5
STD	51.86	48.79	58.56	92.40	72.43	68.70	46.65
N	166	166	166	166	166	166	166
CS2		0.738	0.873	0.734	0.631	0.400	0.897
CS3			0.638	0.504	0.869	0.599	0.953
SA5				0.423	0.552	0.428	0.785
SA6					0.375	0.174	0.635
SA7						0.405	0.810
SA8							0.558

**Table 221. 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			0.73	0.75	0.72	0.93
Reading	5	0.82			0.78	0.74	0.77	0.93
Reading	6	0.84			0.81	0.69	0.75	0.93
Reading	7	0.82			0.77	0.75	0.72	0.93
Reading	8	0.81			0.71	0.73	0.69	0.92
Reading	9	0.80			0.73	0.75	0.74	0.93
Reading	10	0.83			0.77	0.77	0.78	0.94
Spanish Reading	3	0.88						0.88
Spanish Reading	4	0.86			0.70	0.70	0.63	0.93
Writing	3		0.81	0.90				0.93
Writing	4		0.83	0.87				0.92
Writing	5		0.82	0.85				0.90
Writing	6		0.82	0.85				0.91
Writing	7		0.85	0.84				0.91
Writing	8		0.83	0.83				0.90
Writing	9		0.86	0.86				0.92
Writing	10		0.85	0.85				0.91
Spanish Writing	3		0.80	0.87				0.91
Spanish Writing	4		0.73	0.83				0.87
Mathematics	3	0.63	0.76		0.69		0.67	0.90
Mathematics	4	0.73	0.77	0.72	0.79		0.80	0.94
Mathematics	5	0.76	0.77	0.75	0.75		0.78	0.94
Mathematics	6	0.82	0.68	0.73	0.79		0.75	0.94
Mathematics	7	0.85	0.73	0.75	0.79			0.94
Mathematics	8	0.79	0.76	0.77	0.80			0.94
Mathematics	9	0.73	0.80	0.77	0.76			0.93
Mathematics	10	0.71	0.85	0.73	0.75			0.93
Science	5	0.85	0.74	0.66	0.71			0.93
Science	8	0.86	0.69	0.71	0.67			0.92
Science	10	0.84	0.74	0.71	0.69			0.92

**Table 222. Cronbach Alpha Reliability Coefficients for Subcontent Areas**

Content Area	Grade	Subcontent Area							
		1	2	3	4	5	6	7	8
		Alpha	Alpha	Alpha	Alpha	Alpha	Alpha	Alpha	Alpha
Reading	3	0.73	0.72	0.74					
Reading	4	0.84	0.80	0.71					
Reading	5	0.84	0.86	0.62					
Reading	6	0.87	0.78	0.69					
Reading	7	0.83	0.64	0.72	0.72				
Reading	8	0.80	0.76	0.65	0.44				
Reading	9	0.66	0.84	0.65	0.65				
Reading	10	0.83	0.82	0.73	0.52				
Spanish Reading	3	0.80	0.66	0.66					
Spanish Reading	4	0.85	0.77	0.60					
Writing	3					0.80		0.81	0.82
Writing	4					0.73	0.73	0.80	0.77
Writing	5					0.74	0.56	0.75	0.80
Writing	6					0.69	0.73	0.80	0.74
Writing	7					0.73	0.73	0.81	0.77
Writing	8					0.68	0.75	0.73	0.78
Writing	9					0.75	0.77	0.82	0.76
Writing	10					0.73	0.80	0.85	0.66
Spanish Writing	3					0.77		0.81	0.73
Spanish Writing	4					0.60	0.69	0.80	0.68
Mathematics	3								
Mathematics	4	0.75	0.72	0.62					
Mathematics	5	0.72	0.76	0.62					
Mathematics	6	0.81	0.65	0.73					
Mathematics	7	0.69	0.68						
Mathematics	8	0.58	0.73	0.70					
Mathematics	9	0.78	0.80						
Mathematics	10	0.82	0.53						
Science	5	0.77	0.66						
Science	8	0.70	0.77	0.58		0.68	0.63		
Science	10	0.69	0.74		0.65	0.63	0.57		

**Table 223. Subgroup Reliability for the CSAP Mathematics Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
3	No Disability	55695	466.20	83.64	150	700	150	700	0.887	28.08
	Disability	5600	387.45	88.82	150	700	150	700	0.898	28.32
	No IEP	55699	466.19	83.65	150	700	150	700	0.887	28.08
	IEP	5591	387.42	88.81	150	700	150	700	0.898	28.33
	No Accommodation	50291	473.56	82.03	150	700	150	700	0.882	28.18
	Accommodation	10992	392.42	78.33	150	700	150	700	0.877	27.43
	Am. Indian/AK Nat.	698	431.55	85.95	150	700	150	698	0.901	27.09
	Asian/Pac. Isl.	2295	489.87	91.88	150	700	150	700	0.900	29.03
	Black	3681	415.32	84.96	150	700	150	700	0.898	27.16
	Hispanic	18671	421.79	81.05	150	700	150	700	0.886	27.34
	White	35952	481.37	81.37	150	700	150	700	0.879	28.31
	Free Lunch Elig.	20618	417.36	81.57	150	700	150	700	0.888	27.33
	Reduced Lunch	5100	447.61	79.97	150	700	150	700	0.884	27.22
	Not FRL Elig.	35557	484.80	81.35	150	700	150	700	0.878	28.47
	Female	30003	458.39	86.33	150	700	150	700	0.894	28.13
	Male	31293	459.60	87.89	150	700	150	700	0.900	27.76
	Lang. Prof. NA	49584	470.01	84.61	150	700	150	700	0.890	28.05
	Lang. Prof. NEP	3516	356.89	76.93	150	700	150	698	0.861	28.66
	Lang. Prof. LEP	6484	422.94	65.53	150	700	150	700	0.840	26.23
	Lang. Prof. FEP	1709	486.79	73.89	150	700	220	700	0.847	28.87
	Not Mig. or Immig.	60195	459.90	86.88	150	700	150	700	0.897	27.95
	Mig. or Immig.	1095	409.82	86.69	150	700	150	700	0.893	28.31
4	No Disability	53819	500.19	75.44	180	780	180	780	0.935	19.25
	Disability	5999	416.49	84.19	180	780	180	780	0.940	20.57
	No IEP	53814	500.20	75.43	180	780	180	780	0.935	19.25
	IEP	5998	416.42	84.17	180	780	180	780	0.940	20.57
	No Accommodation	49348	506.22	73.76	180	780	180	780	0.932	19.26
	Accommodation	10439	423.64	75.33	180	780	180	780	0.930	19.97
	Am. Indian/AK Nat.	688	460.30	77.77	180	780	180	674	0.939	19.26
	Asian/Pac. Isl.	2215	522.52	83.47	180	780	180	780	0.945	19.60
	Black	3668	450.60	85.45	180	780	180	778	0.946	19.95
	Hispanic	17831	457.03	75.17	180	780	180	780	0.936	19.02
	White	35415	512.25	74.03	180	780	180	780	0.932	19.25
	Free Lunch Elig.	19619	450.96	76.29	180	780	180	780	0.937	19.19
	Reduced Lunch	5106	477.69	72.70	180	780	180	780	0.934	18.70
	Not FRL Elig.	35068	516.69	73.59	180	780	180	780	0.931	19.39
	Female	29290	492.07	78.45	180	780	180	780	0.940	19.28
	Male	30526	491.53	82.22	180	780	180	780	0.945	19.21
	Lang. Prof. NA	48947	501.24	77.89	180	780	180	780	0.939	19.21
	Lang. Prof. NEP	2163	380.34	74.56	180	780	180	650	0.915	21.73
	Lang. Prof. LEP	5666	445.82	61.43	180	780	180	780	0.910	18.45
	Lang. Prof. FEP	3042	504.64	64.15	180	780	268	780	0.915	18.72
	Not Mig. or Immig.	58922	492.53	80.09	180	780	180	780	0.942	19.25
	Mig. or Immig.	889	443.27	85.07	180	780	180	700	0.945	19.98

**Table 223. Subgroup Reliability for the CSAP Mathematics Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
5	No Disability	52838	524.59	71.96	220	800	220	800	0.936	18.27
	Disability	5997	434.10	82.78	220	800	220	800	0.932	21.56
	No IEP	52839	524.58	71.97	220	800	220	800	0.936	18.27
	IEP	5989	434.07	82.76	220	800	220	800	0.932	21.56
	No Accommodation	48732	529.67	70.62	220	800	220	800	0.934	18.21
	Accommodation	10080	446.28	75.55	220	800	220	800	0.924	20.79
	Am. Indian/AK Nat.	656	487.47	75.33	220	800	220	680	0.939	18.58
	Asian/Pac. Isl.	2187	549.60	77.85	220	800	220	800	0.942	18.69
	Black	3625	475.83	80.81	220	800	220	763	0.940	19.80
	Hispanic	17203	480.89	73.27	220	800	220	800	0.932	19.14
	White	35164	534.70	72.23	220	800	220	800	0.936	18.22
	Free Lunch Elig.	18699	475.21	74.15	220	800	220	800	0.932	19.38
	Reduced Lunch	4937	501.44	71.42	220	800	220	800	0.933	18.53
	Not FRL Elig.	35178	538.67	71.63	220	800	220	800	0.935	18.22
	Female	28957	515.31	75.31	220	800	220	800	0.940	18.46
	Male	29879	515.42	80.69	220	800	220	800	0.945	18.86
	Lang. Prof. NA	48395	523.85	75.92	220	800	220	800	0.941	18.46
	Lang. Prof. NEP	1420	401.16	75.17	220	800	220	647	0.899	23.83
	Lang. Prof. LEP	5288	462.09	61.43	220	800	220	754	0.906	18.80
	Lang. Prof. FEP	3731	524.31	62.46	220	800	220	800	0.917	18.02
	Not Mig. or Immig.	57997	516.12	77.83	220	800	220	800	0.943	18.66
	Mig. or Immig.	829	463.02	78.72	220	800	220	800	0.932	20.49
6	No Disability	52020	549.24	71.48	240	830	240	830	0.937	17.99
	Disability	5663	454.53	82.57	240	830	240	755	0.919	23.49
	No IEP	52016	549.24	71.49	240	830	240	830	0.937	17.99
	IEP	5663	454.55	82.59	240	830	240	755	0.919	23.50
	No Accommodation	49869	551.16	70.86	240	830	240	830	0.936	17.96
	Accommodation	7783	467.99	82.57	240	830	240	830	0.926	22.45
	Am. Indian/AK Nat.	681	515.53	77.39	240	830	240	718	0.937	19.37
	Asian/Pac. Isl.	2168	574.97	77.22	240	830	240	830	0.943	18.41
	Black	3308	499.55	79.78	240	830	240	722	0.931	20.94
	Hispanic	16321	503.83	74.66	240	830	240	830	0.928	20.03
	White	35204	558.80	71.30	240	830	240	830	0.937	17.92
	Free Lunch Elig.	17432	497.72	75.65	240	830	240	809	0.926	20.59
	Reduced Lunch	4658	524.14	69.36	240	830	240	798	0.928	18.55
	Not FRL Elig.	35564	562.71	70.60	240	830	240	830	0.936	17.83
	Female	28268	539.52	75.37	240	830	240	830	0.941	18.38
	Male	29414	540.35	80.29	240	830	240	830	0.944	18.99
	Lang. Prof. NA	47944	548.21	74.89	240	830	240	830	0.940	18.31
	Lang. Prof. NEP	1102	410.44	89.77	240	830	240	683	0.899	28.51
	Lang. Prof. LEP	4286	478.53	63.38	240	830	240	766	0.892	20.81
	Lang. Prof. FEP	4351	542.14	63.08	240	830	240	830	0.922	17.58
	Not Mig. or Immig.	56861	540.83	77.42	240	830	240	830	0.942	18.66
	Mig. or Immig.	815	478.82	87.44	240	830	240	734	0.934	22.39

**Table 223. Subgroup Reliability for the CSAP Mathematics Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
7	No Disability	52015	570.16	66.67	280	860	280	860	0.932	17.32
	Disability	5378	476.37	82.93	280	860	280	740	0.903	25.81
	No IEP	52013	570.15	66.68	280	860	280	860	0.932	17.33
	IEP	5376	476.44	82.95	280	860	280	740	0.903	25.80
	No Accommodation	51088	570.23	67.34	280	860	280	860	0.933	17.46
	Accommodation	6283	489.35	82.42	280	860	280	750	0.915	24.08
	Am. Indian/AK Nat.	706	537.77	71.55	280	860	280	727	0.923	19.89
	Asian/Pac. Isl.	2055	594.49	73.53	280	860	280	860	0.942	17.69
	Black	3435	521.60	78.20	280	860	280	756	0.922	21.86
	Hispanic	15809	526.36	70.67	280	860	280	790	0.915	20.66
	White	35388	579.41	66.69	280	860	280	860	0.934	17.19
	Free Lunch Elig.	16741	521.09	72.60	280	860	280	791	0.913	21.43
	Reduced Lunch	4553	544.78	67.08	280	860	280	787	0.922	18.75
	Not FRL Elig.	36075	582.15	66.23	280	860	280	860	0.934	17.07
	Female	28084	561.96	70.75	280	860	280	860	0.933	18.25
	Male	29308	560.80	76.26	280	860	280	860	0.940	18.62
	Lang. Prof. NA	48245	569.05	70.90	280	860	280	860	0.936	17.92
	Lang. Prof. NEP	979	442.12	82.75	280	860	280	676	0.855	31.48
	Lang. Prof. LEP	3642	497.65	64.25	280	860	280	775	0.868	23.37
	Lang. Prof. FEP	4526	556.58	57.77	280	860	280	838	0.911	17.19
	Not Mig. or Immig.	56616	562.23	73.16	280	860	280	860	0.937	18.39
	Mig. or Immig.	771	498.54	79.56	280	860	280	775	0.911	23.68
8	No Disability	51946	579.92	57.15	310	890	310	890	0.928	15.33
	Disability	5190	500.89	69.13	310	890	310	750	0.895	22.45
	No IEP	51941	579.92	57.16	310	890	310	890	0.928	15.33
	IEP	5187	500.94	69.10	310	890	310	750	0.895	22.44
	No Accommodation	51279	579.06	58.33	310	890	310	890	0.929	15.59
	Accommodation	5835	517.22	70.90	310	890	310	739	0.917	20.46
	Am. Indian/AK Nat.	629	553.28	60.67	310	890	310	707	0.923	16.85
	Asian/Pac. Isl.	2108	600.29	60.42	310	890	310	890	0.939	14.88
	Black	3393	539.64	64.57	310	890	310	750	0.906	19.81
	Hispanic	15237	543.10	59.66	310	890	310	755	0.906	18.30
	White	35769	587.22	57.70	310	890	310	890	0.929	15.36
	Free Lunch Elig.	15647	537.31	60.85	310	890	310	723	0.901	19.19
	Reduced Lunch	4556	559.26	57.21	310	890	310	744	0.911	17.04
	Not FRL Elig.	36909	589.44	57.06	310	890	310	890	0.930	15.14
	Female	27803	572.80	59.21	310	890	310	890	0.927	16.03
	Male	29329	572.68	65.63	310	890	310	890	0.936	16.64
	Lang. Prof. NA	48662	578.66	60.84	310	890	310	890	0.931	16.00
	Lang. Prof. NEP	775	476.21	69.35	310	890	310	687	0.858	26.09
	Lang. Prof. LEP	3055	515.66	52.18	310	890	310	703	0.853	20.03
	Lang. Prof. FEP	4643	564.31	51.97	310	890	310	731	0.911	15.49
	Not Mig. or Immig.	56338	573.45	62.19	310	890	310	890	0.931	16.29
	Mig. or Immig.	787	523.12	70.33	310	890	310	715	0.912	20.86

**Table 223. Subgroup Reliability for the CSAP Mathematics Tests (Concluded)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
9	No Disability	54025	576.46	70.18	340	920	340	863	0.921	19.75
	Disability	5017	481.40	79.78	340	920	340	765	0.865	29.35
	No IEP	54009	576.48	70.17	340	920	340	863	0.921	19.75
	IEP	5019	481.35	79.74	340	920	340	765	0.864	29.35
	No Accommodation	55364	573.58	72.35	340	920	340	863	0.922	20.25
	Accommodation	3646	489.47	83.28	340	920	340	748	0.890	27.64
	Am. Indian/AK Nat.	769	539.06	76.45	340	920	340	711	0.897	24.48
	Asian/Pac. Isl.	2000	599.68	77.99	340	920	340	792	0.940	19.10
	Black	3677	526.49	78.23	340	920	340	732	0.884	26.59
	Hispanic	15978	530.13	71.42	340	920	340	773	0.879	24.86
	White	36622	588.18	68.54	340	920	340	863	0.921	19.22
	Free Lunch Elig.	14933	523.37	74.20	340	920	340	749	0.878	25.90
	Reduced Lunch	4042	555.05	66.99	340	920	340	801	0.893	21.90
	Not FRL Elig.	40038	586.52	69.78	340	920	340	863	0.923	19.36
	Female	28789	569.31	71.71	340	920	340	859	0.916	20.80
	Male	30257	567.50	79.53	340	920	340	863	0.929	21.15
	Lang. Prof. NA	50522	575.91	73.29	340	920	340	863	0.923	20.37
	Lang. Prof. NEP	1010	446.09	76.97	340	920	340	709	0.818	32.80
	Lang. Prof. LEP	2503	499.34	65.51	340	920	340	742	0.819	27.86
	Lang. Prof. FEP	5005	551.64	63.26	340	920	340	780	0.888	21.22
	Not Mig. or Immig.	58180	569.44	75.15	340	920	340	863	0.923	20.86
	Mig. or Immig.	843	496.56	86.94	340	920	340	739	0.899	27.57
10	No Disability	51605	594.36	68.33	370	950	370	909	0.925	18.66
	Disability	4287	501.65	75.07	370	950	370	766	0.861	27.94
	No IEP	51580	594.39	68.31	370	950	370	909	0.925	18.66
	IEP	4288	501.61	75.09	370	950	370	766	0.861	27.95
	No Accommodation	52924	591.42	70.43	370	950	370	909	0.926	19.13
	Accommodation	2910	511.47	80.13	370	950	370	738	0.897	25.70
	Am. Indian/AK Nat.	665	562.56	71.85	370	950	370	743	0.905	22.13
	Asian/Pac. Isl.	1844	616.00	74.93	370	950	370	832	0.941	18.13
	Black	3448	544.39	71.80	370	950	370	742	0.880	24.87
	Hispanic	14045	548.67	69.42	370	950	370	771	0.887	23.33
	White	35906	605.43	66.53	370	950	370	909	0.925	18.16
	Free Lunch Elig.	12454	542.62	69.91	370	950	370	765	0.876	24.59
	Reduced Lunch	3594	569.41	66.73	370	950	370	797	0.901	21.04
	Not FRL Elig.	39809	602.88	68.40	370	950	370	909	0.928	18.39
	Female	27316	586.21	69.34	370	950	370	832	0.922	19.38
	Male	28582	588.25	76.61	370	950	370	909	0.932	20.00
	Lang. Prof. NA	48459	594.07	70.97	370	950	370	909	0.927	19.14
	Lang. Prof. NEP	848	478.19	74.31	370	950	370	710	0.829	30.76
	Lang. Prof. LEP	2291	522.40	61.74	370	950	370	732	0.833	25.24
	Lang. Prof. FEP	4296	566.46	64.39	370	950	370	797	0.895	20.82
	Not Mig. or Immig.	55083	588.20	72.60	370	950	370	909	0.927	19.57
	Mig. or Immig.	775	522.79	81.68	370	950	370	739	0.897	26.26



**Table 224. Subgroup Reliability for the CSAP Reading Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
3	No Disability	54394	566.98	68.98	150	795	150	795	0.873	24.55
	Disability	5446	473.31	108.80	150	795	150	768	0.895	35.20
	No IEP	54390	566.98	68.99	150	795	150	795	0.873	24.55
	IEP	5444	473.25	108.80	150	795	150	768	0.895	35.22
	No Accommodation	49126	573.21	65.26	150	795	150	795	0.862	24.21
	Accommodation	10688	490.57	95.53	150	795	150	795	0.882	32.77
	Am. Indian/AK Nat.	694	538.53	74.52	150	795	150	717	0.882	25.60
	Asian/Pac. Isl.	2287	572.05	78.71	150	795	150	795	0.890	26.08
	Black	3665	529.77	83.92	150	795	150	747	0.889	27.98
	Hispanic	17302	522.66	82.72	150	795	150	795	0.878	28.89
	White	35892	578.16	67.75	150	795	150	795	0.871	24.30
	Free Lunch Elig.	19425	519.53	83.90	150	795	150	795	0.880	29.10
	Reduced Lunch	5008	547.24	72.42	150	795	150	795	0.873	25.83
	Not FRL Elig.	35390	581.41	66.17	150	795	150	795	0.866	24.26
	Female	29245	565.67	74.13	150	795	150	795	0.885	25.18
	Male	30595	551.56	81.48	150	795	150	795	0.894	26.48
	Lang. Prof. NA	49504	569.64	71.21	150	795	150	795	0.879	24.73
	Lang. Prof. NEP	2641	423.66	105.00	150	795	150	681	0.811	45.64
	Lang. Prof. LEP	5992	520.14	55.74	150	795	150	724	0.796	25.16
	Lang. Prof. FEP	1703	577.08	51.05	150	795	150	795	0.773	24.31
	Not Mig. or Immig.	58830	559.56	77.33	150	795	150	795	0.889	25.74
	Mig. or Immig.	997	493.71	103.40	150	795	150	734	0.892	34.03
4	No Disability	53600	594.63	59.57	180	940	180	921	0.929	15.91
	Disability	5951	510.00	90.69	180	940	180	762	0.934	23.37
	No IEP	53594	594.64	59.57	180	940	180	921	0.929	15.91
	IEP	5950	509.93	90.69	180	940	180	762	0.934	23.37
	No Accommodation	47637	600.27	57.07	180	940	180	921	0.924	15.72
	Accommodation	11888	529.74	79.32	180	940	180	762	0.928	21.29
	Am. Indian/AK Nat.	689	560.55	68.57	180	940	180	707	0.935	17.46
	Asian/Pac. Isl.	2207	598.39	68.46	180	940	180	841	0.937	17.17
	Black	3653	556.92	77.79	180	940	180	775	0.936	19.70
	Hispanic	17634	554.10	70.18	180	940	180	774	0.930	18.56
	White	35368	604.92	58.38	180	940	180	921	0.926	15.86
	Free Lunch Elig.	19424	550.43	72.80	180	940	180	775	0.930	19.20
	Reduced Lunch	5087	575.97	62.20	180	940	180	762	0.926	16.87
	Not FRL Elig.	35018	607.49	56.97	180	940	180	921	0.924	15.73
	Female	29169	593.42	64.09	180	940	180	921	0.936	16.26
	Male	30379	579.22	71.36	180	940	180	809	0.940	17.49
	Lang. Prof. NA	48875	596.19	62.62	180	940	180	921	0.932	16.30
	Lang. Prof. NEP	2002	458.84	89.41	180	940	180	658	0.857	33.83
	Lang. Prof. LEP	5631	540.10	49.80	180	940	180	708	0.878	17.42
	Lang. Prof. FEP	3043	594.28	46.00	180	940	180	841	0.893	15.05
	Not Mig. or Immig.	58719	586.97	67.70	180	940	180	921	0.938	16.87
	Mig. or Immig.	825	530.04	83.81	180	940	180	719	0.934	21.56

**Table 224. Subgroup Reliability for the CSAP Reading Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
5	No Disability	52800	619.76	60.77	220	955	220	853	0.928	16.33
	Disability	5957	531.03	89.92	220	955	220	764	0.933	23.26
	No IEP	52801	619.76	60.79	220	955	220	853	0.928	16.33
	IEP	5952	531.01	89.82	220	955	220	764	0.933	23.25
	No Accommodation	47813	624.49	58.80	220	955	220	853	0.924	16.25
	Accommodation	10913	550.66	80.93	220	955	220	811	0.930	21.35
	Am. Indian/AK Nat.	655	588.82	74.36	220	955	220	765	0.938	18.46
	Asian/Pac. Isl.	2181	628.01	64.63	220	955	220	784	0.934	16.61
	Black	3616	583.66	75.17	220	955	220	810	0.936	18.95
	Hispanic	17160	578.04	72.03	220	955	220	797	0.930	19.03
	White	35146	628.87	60.72	220	955	220	853	0.929	16.23
	Free Lunch Elig.	18654	573.96	73.27	220	955	220	810	0.930	19.33
	Reduced Lunch	4930	600.15	63.00	220	955	220	798	0.925	17.31
	Not FRL Elig.	35152	631.80	59.40	220	955	220	853	0.926	16.16
	Female	28938	617.27	65.48	220	955	220	839	0.935	16.69
	Male	29819	604.46	72.98	220	955	220	853	0.941	17.73
	Lang. Prof. NA	48347	620.27	64.51	220	955	220	853	0.933	16.68
	Lang. Prof. NEP	1393	465.10	96.26	220	955	220	681	0.871	34.61
	Lang. Prof. LEP	5286	558.43	52.88	220	955	220	728	0.883	18.12
	Lang. Prof. FEP	3730	616.18	46.06	220	955	220	810	0.889	15.35
6	Not Mig. or Immig.	57936	611.82	68.65	220	955	220	853	0.938	17.14
	Mig. or Immig.	813	536.43	96.10	220	955	220	758	0.936	24.39
	No Disability	51959	636.01	59.50	260	970	260	829	0.930	15.69
	Disability	5640	545.97	91.34	260	970	260	752	0.926	24.91
	No IEP	51958	636.01	59.50	260	970	260	829	0.930	15.69
	IEP	5639	545.94	91.35	260	970	260	752	0.926	24.91
	No Accommodation	49078	638.04	58.62	260	970	260	829	0.929	15.57
	Accommodation	8453	564.25	87.09	260	970	260	809	0.931	22.96
	Am. Indian/AK Nat.	679	608.65	69.38	260	970	260	757	0.936	17.58
	Asian/Pac. Isl.	2164	642.63	66.73	260	970	260	797	0.937	16.74
	Black	3307	596.47	73.95	260	970	260	760	0.932	19.29
	Hispanic	16295	591.73	73.00	260	970	260	804	0.927	19.70
	White	35155	645.92	57.87	260	970	260	829	0.928	15.49
	Free Lunch Elig.	17398	587.24	74.73	260	970	260	781	0.926	20.29
	Reduced Lunch	4656	614.10	63.36	260	970	260	795	0.927	17.12
	Not FRL Elig.	35516	648.48	56.06	260	970	260	829	0.926	15.24
	Female	28243	633.88	64.76	260	970	260	829	0.937	16.23
	Male	29355	620.76	71.80	260	970	260	811	0.940	17.53
	Lang. Prof. NA	47882	637.15	62.20	260	970	260	829	0.934	16.03
	Lang. Prof. NEP	1085	465.81	102.20	260	970	260	726	0.846	40.10
	Lang. Prof. LEP	4284	562.12	58.38	260	970	260	749	0.864	21.53
	Lang. Prof. FEP	4349	621.91	47.43	260	970	260	779	0.895	15.36
	Not Mig. or Immig.	56792	628.33	67.59	260	970	260	829	0.938	16.78
	Mig. or Immig.	802	547.29	96.29	260	970	260	743	0.929	25.66

**Table 224. Subgroup Reliability for the CSAP Reading Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
7	No Disability	52021	646.91	59.25	300	980	300	979	0.926	16.15
	Disability	5363	556.60	84.45	300	980	300	787	0.921	23.71
	No IEP	52019	646.90	59.26	300	980	300	979	0.926	16.15
	IEP	5363	556.64	84.47	300	980	300	787	0.921	23.71
	No Accommodation	51269	647.03	59.56	300	980	300	979	0.926	16.20
	Accommodation	6094	566.55	84.28	300	980	300	785	0.928	22.63
	Am. Indian/AK Nat.	703	622.07	63.53	300	980	300	795	0.927	17.16
	Asian/Pac. Isl.	2057	652.31	71.23	300	980	300	845	0.941	17.37
	Black	3442	609.96	71.14	300	980	300	783	0.930	18.76
	Hispanic	15806	603.25	70.48	300	980	300	816	0.927	19.04
	White	35377	656.50	57.48	300	980	300	979	0.923	15.99
	Free Lunch Elig.	16727	599.20	72.34	300	980	300	786	0.927	19.60
	Reduced Lunch	4546	624.58	61.29	300	980	300	823	0.922	17.09
	Not FRL Elig.	36087	658.41	56.41	300	980	300	979	0.921	15.86
	Female	28091	646.64	63.29	300	980	300	979	0.934	16.31
	Male	29294	630.63	70.20	300	980	300	849	0.937	17.61
	Lang. Prof. NA	48254	648.01	61.23	300	980	300	979	0.929	16.36
	Lang. Prof. NEP	964	473.17	88.95	300	980	300	717	0.835	36.17
	Lang. Prof. LEP	3634	565.57	57.55	300	980	300	736	0.863	21.33
	Lang. Prof. FEP	4530	630.46	46.11	300	980	300	827	0.886	15.59
	Not Mig. or Immig.	56612	639.80	65.87	300	980	300	979	0.935	16.84
	Mig. or Immig.	768	540.17	98.30	300	980	300	755	0.930	25.97
8	No Disability	51909	654.12	53.42	330	990	330	927	0.914	15.63
	Disability	5175	576.44	69.45	330	990	330	786	0.912	20.62
	No IEP	51902	654.12	53.44	330	990	330	927	0.914	15.64
	IEP	5172	576.47	69.40	330	990	330	786	0.912	20.61
	No Accommodation	51640	653.42	54.37	330	990	330	927	0.916	15.80
	Accommodation	5426	586.77	70.57	330	990	330	811	0.922	19.74
	Am. Indian/AK Nat.	627	631.89	62.33	330	990	330	779	0.921	17.54
	Asian/Pac. Isl.	2104	661.19	59.83	330	990	330	825	0.928	16.10
	Black	3386	621.95	61.94	330	990	330	795	0.916	17.97
	Hispanic	15229	616.91	59.34	330	990	330	812	0.914	17.43
	White	35738	661.75	53.08	330	990	330	927	0.913	15.69
	Free Lunch Elig.	15629	611.44	61.08	330	990	330	779	0.913	18.02
	Reduced Lunch	4555	635.57	52.77	330	990	330	788	0.905	16.25
	Not FRL Elig.	36876	663.61	52.05	330	990	330	927	0.911	15.57
	Female	27790	655.56	56.65	330	990	330	927	0.923	15.71
	Male	29293	639.03	60.85	330	990	330	831	0.926	16.56
	Lang. Prof. NA	48634	654.46	55.80	330	990	330	927	0.918	15.97
	Lang. Prof. NEP	755	514.53	68.88	330	990	330	673	0.803	30.58
	Lang. Prof. LEP	3059	578.93	47.14	330	990	330	759	0.839	18.92
	Lang. Prof. FEP	4636	636.16	44.19	330	990	330	807	0.875	15.64
	Not Mig. or Immig.	56288	648.12	58.55	330	990	330	927	0.924	16.17
	Mig. or Immig.	783	572.56	72.47	330	990	330	744	0.914	21.25

**Table 224. Subgroup Reliability for the CSAP Reading Tests (Concluded)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
9	No Disability	53907	664.91	48.50	350	995	350	888	0.925	13.32
	Disability	5008	594.20	67.65	350	995	350	767	0.911	20.16
	No IEP	53890	664.92	48.50	350	995	350	888	0.925	13.32
	IEP	5010	594.17	67.65	350	995	350	767	0.911	20.17
	No Accommodation	55499	662.88	50.43	350	995	350	888	0.927	13.61
	Accommodation	3376	593.52	68.88	350	995	350	768	0.918	19.68
	Am. Indian/AK Nat.	762	643.75	50.77	350	995	350	768	0.921	14.27
	Asian/Pac. Isl.	2004	671.10	55.37	350	995	350	888	0.939	13.65
	Black	3659	637.16	58.30	350	995	350	833	0.922	16.24
	Hispanic	15935	631.07	55.01	350	995	350	828	0.917	15.89
	White	36561	672.85	47.42	350	995	350	839	0.923	13.20
	Free Lunch Elig.	14878	626.77	57.45	350	995	350	828	0.917	16.59
	Reduced Lunch	4026	650.12	47.13	350	995	350	801	0.914	13.80
	Not FRL Elig.	39984	671.73	48.07	350	995	350	888	0.924	13.24
	Female	28733	666.34	49.64	350	995	350	888	0.929	13.24
	Male	30188	651.82	57.19	350	995	350	828	0.935	14.60
	Lang. Prof. NA	50431	665.55	50.29	350	995	350	888	0.927	13.58
	Lang. Prof. NEP	989	542.95	72.39	350	995	350	705	0.810	31.56
	Lang. Prof. LEP	2495	599.32	46.56	350	995	350	749	0.849	18.08
	Lang. Prof. FEP	4998	644.50	42.61	350	995	350	782	0.893	13.93
	Not Mig. or Immig.	58073	659.94	53.20	350	995	350	888	0.931	13.95
	Mig. or Immig.	822	586.18	67.89	350	995	350	743	0.909	20.47
10	No Disability	51432	690.30	50.50	370	999	370	901	0.936	12.81
	Disability	4250	619.19	63.69	370	999	370	788	0.917	18.33
	No IEP	51409	690.31	50.49	370	999	370	901	0.936	12.81
	IEP	4248	619.18	63.71	370	999	370	788	0.917	18.34
	No Accommodation	52990	688.13	52.40	370	999	370	901	0.938	13.04
	Accommodation	2686	620.98	64.48	370	999	370	798	0.928	17.29
	Am. Indian/AK Nat.	665	668.40	52.73	370	999	370	796	0.934	13.58
	Asian/Pac. Isl.	1835	692.50	56.23	370	999	370	838	0.945	13.20
	Black	3415	660.31	58.01	370	999	370	818	0.935	14.80
	Hispanic	13998	657.37	54.93	370	999	370	841	0.930	14.49
	White	35784	697.88	49.57	370	999	370	901	0.934	12.73
	Free Lunch Elig.	12399	652.29	56.83	370	999	370	828	0.928	15.23
	Reduced Lunch	3571	673.50	51.40	370	999	370	808	0.929	13.74
	Not FRL Elig.	39680	696.10	50.20	370	999	370	901	0.936	12.66
	Female	27238	694.47	49.49	370	999	370	901	0.937	12.38
	Male	28459	675.67	58.28	370	999	370	889	0.943	13.88
	Lang. Prof. NA	48278	690.92	51.95	370	999	370	901	0.938	12.95
	Lang. Prof. NEP	836	569.71	65.34	370	999	370	742	0.811	28.41
	Lang. Prof. LEP	2273	627.30	44.99	370	999	370	769	0.862	16.74
	Lang. Prof. FEP	4298	669.68	44.23	370	999	370	819	0.910	13.28
	Not Mig. or Immig.	54888	685.91	54.06	370	999	370	901	0.941	13.15
	Mig. or Immig.	761	611.20	67.87	370	999	370	771	0.920	19.17

**Table 225. Subgroup Reliability for the CSAP Writing Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
3	No Disability	54451	473.35	48.75	150	680	150	680	0.919	13.84
	Disability	5479	418.84	55.05	150	680	150	680	0.924	15.18
	No IEP	54453	473.35	48.75	150	680	150	680	0.919	13.84
	IEP	5472	418.79	55.05	150	680	150	680	0.924	15.18
	No Accommodation	49261	477.71	47.29	150	680	150	680	0.914	13.88
	Accommodation	10656	425.16	49.82	150	680	150	680	0.915	14.52
	Am. Indian/AK Nat.	696	449.89	53.56	150	680	150	605	0.931	14.06
	Asian/Pac. Isl.	2295	476.86	54.68	150	680	150	680	0.932	14.29
	Black	3681	448.38	52.57	150	680	150	680	0.932	13.73
	Hispanic	17326	445.26	49.90	150	680	150	680	0.926	13.57
	White	35932	481.37	47.61	150	680	150	680	0.913	14.02
	Free Lunch Elig.	19439	442.52	50.48	150	680	150	680	0.926	13.74
	Reduced Lunch	5011	460.68	46.33	150	680	150	680	0.917	13.38
	Not FRL Elig.	35463	483.62	47.19	150	680	150	680	0.911	14.08
	Female	29279	475.96	50.84	150	680	150	680	0.924	13.99
	Male	30652	461.10	51.66	150	680	150	680	0.931	13.61
	Lang. Prof. NA	49579	475.19	49.14	150	680	150	680	0.921	13.79
	Lang. Prof. NEP	2654	390.13	57.98	150	680	150	559	0.896	18.67
	Lang. Prof. LEP	6001	442.85	34.29	150	680	150	587	0.874	12.15
	Lang. Prof. FEP	1695	481.44	37.31	150	680	339	680	0.855	14.22
4	Not Mig. or Immig.	58928	469.05	51.27	150	680	150	680	0.928	13.76
	Mig. or Immig.	994	427.99	65.09	150	680	150	573	0.939	16.05
	No Disability	53593	490.43	50.15	190	730	190	730	0.913	14.78
	Disability	5954	434.99	48.43	190	730	190	714	0.910	14.49
	No IEP	53587	490.44	50.14	190	730	190	730	0.913	14.78
	IEP	5953	434.94	48.42	190	730	190	714	0.910	14.50
	No Accommodation	47493	494.53	49.22	190	730	203	730	0.910	14.79
	Accommodation	12007	446.79	48.48	190	730	190	730	0.910	14.51
	Am. Indian/AK Nat.	686	464.04	50.74	190	730	283	672	0.924	14.03
	Asian/Pac. Isl.	2204	499.94	56.34	190	730	190	730	0.925	15.38
	Black	3657	465.53	52.02	190	730	190	686	0.925	14.23
	Hispanic	17618	461.70	49.21	190	730	190	686	0.917	14.14
	White	35382	497.91	49.38	190	730	190	730	0.908	14.98
	Free Lunch Elig.	19418	458.37	48.91	190	730	190	730	0.917	14.07
	Reduced Lunch	5089	475.55	47.04	190	730	190	730	0.909	14.17
	Not FRL Elig.	35018	500.96	49.08	190	730	190	730	0.904	15.17
	Female	29161	493.37	52.54	190	730	190	730	0.919	14.97
	Male	30383	476.75	51.51	190	730	190	730	0.924	14.17
	Lang. Prof. NA	48888	491.81	50.54	190	730	190	730	0.915	14.73
	Lang. Prof. NEP	1994	400.85	47.37	190	730	190	583	0.873	16.90
	Lang. Prof. LEP	5627	450.47	35.77	190	730	190	641	0.867	13.02
	Lang. Prof. FEP	3038	492.48	42.15	190	730	300	730	0.871	15.12
	Not Mig. or Immig.	58717	485.44	52.37	190	730	190	730	0.922	14.62
	Mig. or Immig.	823	445.74	59.06	190	730	190	665	0.932	15.42

**Table 225. Subgroup Reliability for the CSAP Writing Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
5	No Disability	52809	514.18	52.21	220	780	220	780	0.896	16.83
	Disability	5972	451.49	49.46	220	780	220	780	0.887	16.60
	No IEP	52810	514.17	52.21	220	780	220	780	0.896	16.83
	IEP	5967	451.46	49.46	220	780	220	780	0.887	16.61
	No Accommodation	47510	517.79	51.18	220	780	220	780	0.893	16.78
	Accommodation	11210	465.51	51.92	220	780	220	780	0.895	16.86
	Am. Indian/AK Nat.	656	487.54	53.68	220	780	343	664	0.910	16.14
	Asian/Pac. Isl.	2180	526.70	55.25	220	780	272	780	0.900	17.48
	Black	3616	488.08	53.56	220	780	220	757	0.909	16.20
	Hispanic	17180	483.63	50.60	220	780	220	780	0.898	16.16
	White	35150	520.86	52.87	220	780	220	780	0.898	16.87
	Free Lunch Elig.	18678	479.62	50.40	220	780	220	780	0.898	16.11
	Reduced Lunch	4932	498.01	48.70	220	780	290	780	0.891	16.09
	Not FRL Elig.	35150	524.17	52.18	220	780	220	780	0.894	17.01
	Female	28940	518.45	54.58	220	780	220	780	0.904	16.94
	Male	29841	497.49	53.99	220	780	220	780	0.909	16.28
	Lang. Prof. NA	48356	514.37	53.69	220	780	220	780	0.904	16.66
	Lang. Prof. NEP	1399	415.10	54.14	220	780	220	628	0.848	21.10
	Lang. Prof. LEP	5293	469.61	37.56	220	780	274	727	0.843	14.86
	Lang. Prof. FEP	3732	511.69	42.70	220	780	308	780	0.855	16.28
	Not Mig. or Immig.	57958	508.51	54.84	220	780	220	780	0.908	16.66
	Mig. or Immig.	815	457.85	63.13	220	780	220	643	0.913	18.59
6	No Disability	51728	534.87	55.75	230	840	230	840	0.897	17.89
	Disability	5649	462.06	52.28	230	840	230	685	0.869	18.89
	No IEP	51727	534.87	55.75	230	840	230	840	0.897	17.89
	IEP	5648	462.05	52.30	230	840	230	685	0.870	18.89
	No Accommodation	49162	536.73	54.87	230	840	230	840	0.894	17.84
	Accommodation	8143	473.26	57.42	230	840	230	840	0.887	19.28
	Am. Indian/AK Nat.	680	505.20	55.07	230	840	295	685	0.899	17.48
	Asian/Pac. Isl.	2138	548.65	64.89	230	840	230	840	0.917	18.65
	Black	3304	505.38	57.63	230	840	230	730	0.902	18.01
	Hispanic	16238	499.98	55.15	230	840	230	792	0.893	18.08
	White	35018	541.81	55.90	230	840	230	840	0.898	17.83
	Free Lunch Elig.	17358	495.18	55.39	230	840	230	732	0.892	18.18
	Reduced Lunch	4629	515.53	52.75	230	840	230	729	0.888	17.65
	Not FRL Elig.	35361	545.26	55.02	230	840	230	840	0.894	17.92
	Female	28130	539.61	57.50	230	840	230	840	0.903	17.91
	Male	29246	516.24	59.17	230	840	230	840	0.909	17.84
	Lang. Prof. NA	47698	535.02	57.12	230	840	230	840	0.903	17.81
	Lang. Prof. NEP	1093	413.65	58.82	230	840	230	636	0.830	24.24
	Lang. Prof. LEP	4278	476.96	40.24	230	840	287	674	0.818	17.19
	Lang. Prof. FEP	4309	525.96	45.89	230	840	311	756	0.854	17.52
	Not Mig. or Immig.	56566	528.57	58.93	230	840	230	840	0.908	17.91
	Mig. or Immig.	806	467.00	67.96	230	840	230	658	0.907	20.69

**Table 225. Subgroup Reliability for the CSAP Writing Tests (Continued)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
7	No Disability	52018	566.11	64.50	240	890	240	890	0.905	19.92
	Disability	5375	483.77	56.93	240	890	240	890	0.877	19.95
	No IEP	52016	566.10	64.51	240	890	240	890	0.905	19.92
	IEP	5375	483.82	56.95	240	890	240	890	0.877	19.96
	No Accommodation	50996	566.69	64.24	240	890	240	890	0.905	19.85
	Accommodation	6367	492.21	62.58	240	890	240	824	0.891	20.63
	Am. Indian/AK Nat.	701	535.88	62.03	240	890	245	726	0.903	19.32
	Asian/Pac. Isl.	2056	581.75	73.66	240	890	240	890	0.924	20.24
	Black	3445	532.02	64.23	240	890	240	824	0.909	19.41
	Hispanic	15810	526.06	62.74	240	890	240	890	0.901	19.72
	White	35382	574.50	64.46	240	890	240	890	0.906	19.78
	Free Lunch Elig.	16733	520.61	61.80	240	890	240	828	0.900	19.58
	Reduced Lunch	4545	542.13	59.77	240	890	285	818	0.896	19.23
	Not FRL Elig.	36091	577.96	63.98	240	890	240	890	0.903	19.96
	Female	28097	574.03	66.43	240	890	240	890	0.909	20.04
	Male	29297	543.40	66.46	240	890	240	890	0.915	19.34
	Lang. Prof. NA	48254	566.77	65.71	240	890	240	890	0.910	19.73
	Lang. Prof. NEP	968	424.92	62.37	240	890	240	640	0.810	27.17
	Lang. Prof. LEP	3638	492.68	42.59	240	890	240	688	0.816	18.26
	Lang. Prof. FEP	4531	550.55	50.38	240	890	369	890	0.852	19.35
	Not Mig. or Immig.	56623	559.55	67.28	240	890	240	890	0.914	19.76
	Mig. or Immig.	766	473.04	79.93	240	890	240	734	0.914	23.46
8	No Disability	51915	568.03	64.55	250	910	250	910	0.891	21.35
	Disability	5182	484.20	57.82	250	910	250	816	0.875	20.43
	No IEP	51908	568.04	64.55	250	910	250	910	0.891	21.35
	IEP	5179	484.20	57.82	250	910	250	816	0.875	20.43
	No Accommodation	51410	567.72	64.51	250	910	250	910	0.891	21.26
	Accommodation	5662	494.25	66.55	250	910	250	832	0.893	21.79
	Am. Indian/AK Nat.	627	541.04	62.55	250	910	331	747	0.895	20.32
	Asian/Pac. Isl.	2105	578.30	72.40	250	910	250	910	0.908	21.91
	Black	3396	533.61	63.53	250	910	250	910	0.896	20.52
	Hispanic	15229	529.17	61.16	250	910	250	910	0.892	20.12
	White	35740	575.56	66.11	250	910	250	910	0.896	21.34
	Free Lunch Elig.	15640	522.45	60.99	250	910	250	816	0.891	20.12
	Reduced Lunch	4558	545.51	59.79	250	910	292	910	0.882	20.55
	Not FRL Elig.	36875	578.38	65.20	250	910	250	910	0.892	21.46
	Female	27799	576.77	66.25	250	910	250	910	0.895	21.50
	Male	29297	544.90	66.69	250	910	250	910	0.906	20.41
	Lang. Prof. NA	48644	567.68	66.58	250	910	250	910	0.899	21.13
	Lang. Prof. NEP	756	421.40	66.97	250	910	250	578	0.821	28.35
	Lang. Prof. LEP	3058	495.38	42.09	250	910	305	701	0.801	18.77
	Lang. Prof. FEP	4639	549.76	50.28	250	910	307	910	0.839	20.18
	Not Mig. or Immig.	56301	561.55	67.53	250	910	250	910	0.903	21.04
	Mig. or Immig.	783	480.51	78.43	250	910	250	701	0.910	23.59

**Table 225. Subgroup Reliability for the CSAP Writing Tests (Concluded)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
9	No Disability	53948	574.02	72.98	260	930	260	930	0.914	21.40
	Disability	4983	480.74	65.03	260	930	260	769	0.887	21.89
	No IEP	53931	574.03	72.98	260	930	260	930	0.914	21.40
	IEP	4985	480.65	65.02	260	930	260	769	0.887	21.89
	No Accommodation	55284	571.71	73.85	260	930	260	930	0.917	21.33
	Accommodation	3554	479.55	70.73	260	930	260	776	0.894	23.03
	Am. Indian/AK Nat.	764	538.28	71.69	260	930	260	797	0.911	21.37
	Asian/Pac. Isl.	2004	582.04	88.20	260	930	260	930	0.932	23.07
	Black	3657	534.26	71.46	260	930	260	817	0.909	21.54
	Hispanic	15954	527.39	67.13	260	930	260	930	0.901	21.08
	White	36558	585.92	73.05	260	930	260	930	0.916	21.19
	Free Lunch Elig.	14884	520.77	68.06	260	930	260	930	0.900	21.53
	Reduced Lunch	4028	550.38	66.22	260	930	260	869	0.903	20.58
	Not FRL Elig.	39992	584.59	73.53	260	930	260	930	0.916	21.25
	Female	28741	582.07	74.28	260	930	260	930	0.916	21.46
	Male	30196	550.94	76.21	260	930	260	930	0.923	21.16
	Lang. Prof. NA	50435	575.16	74.28	260	930	260	930	0.919	21.20
	Lang. Prof. NEP	998	418.15	69.14	260	930	260	671	0.806	30.44
	Lang. Prof. LEP	2488	488.85	47.44	260	930	260	685	0.814	20.45
	Lang. Prof. FEP	5008	543.02	56.61	260	930	260	930	0.871	20.35
	Not Mig. or Immig.	58079	567.62	75.74	260	930	260	930	0.921	21.32
	Mig. or Immig.	833	463.56	84.13	260	930	260	816	0.902	26.32
10	No Disability	51498	586.31	77.42	270	950	270	950	0.909	23.36
	Disability	4279	485.92	63.90	270	950	270	886	0.874	22.69
	No IEP	51474	586.34	77.42	270	950	270	950	0.909	23.35
	IEP	4278	485.90	63.88	270	950	270	886	0.874	22.70
	No Accommodation	52918	583.52	78.60	270	950	270	950	0.912	23.28
	Accommodation	2823	487.54	70.85	270	950	270	886	0.887	23.82
	Am. Indian/AK Nat.	666	552.76	76.28	270	950	270	913	0.908	23.19
	Asian/Pac. Isl.	1835	600.90	90.47	270	950	270	950	0.924	24.87
	Black	3425	542.59	74.76	270	950	270	855	0.907	22.75
	Hispanic	14038	538.43	71.99	270	950	270	950	0.900	22.76
	White	35828	597.13	77.39	270	950	270	950	0.910	23.20
	Free Lunch Elig.	12436	531.02	71.44	270	950	270	950	0.898	22.79
	Reduced Lunch	3569	559.36	70.10	270	950	270	841	0.898	22.38
	Not FRL Elig.	39740	595.29	78.37	270	950	270	950	0.912	23.27
	Female	27282	596.14	78.70	270	950	270	950	0.912	23.38
	Male	28510	561.82	79.61	270	950	270	950	0.917	22.88
	Lang. Prof. NA	48350	586.98	78.77	270	950	270	950	0.914	23.14
	Lang. Prof. NEP	842	428.46	64.56	270	950	270	683	0.802	28.70
	Lang. Prof. LEP	2286	498.85	51.09	270	950	270	777	0.821	21.62
	Lang. Prof. FEP	4302	556.21	63.65	270	950	270	849	0.874	22.56
	Not Mig. or Immig.	54977	580.06	80.06	270	950	270	950	0.916	23.19
	Mig. or Immig.	767	477.69	83.61	270	950	270	728	0.903	26.02



**Table 226. Subgroup Reliability for the CSAP Science Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
5	No Disability	52829	502.32	61.72	300	900	300	766	0.919	17.57
	Disability	5979	440.97	66.91	300	900	300	690	0.917	19.29
	No IEP	52826	502.32	61.73	300	900	300	766	0.919	17.57
	IEP	5972	440.90	66.88	300	900	300	690	0.917	19.29
	No Accommodation	50014	506.22	60.30	300	900	300	766	0.916	17.48
	Accommodation	8767	438.37	60.38	300	900	300	685	0.898	19.24
	Am. Indian/AK Nat.	658	474.94	62.94	300	900	300	637	0.919	17.86
	Asian/Pac. Isl.	2185	509.90	64.63	300	900	300	699	0.925	17.71
	Black	3620	463.53	63.24	300	900	300	730	0.915	18.39
	Hispanic	17183	458.85	60.50	300	900	300	729	0.908	18.34
	White	35163	517.17	57.23	300	900	300	766	0.908	17.34
	Free Lunch Elig.	18681	456.98	60.28	300	900	300	695	0.907	18.42
	Reduced Lunch Elig.	4930	483.38	57.50	300	900	300	668	0.907	17.49
	Not FRL Elig.	35175	518.64	57.61	300	900	300	766	0.909	17.35
	Female	28946	493.35	62.64	300	900	300	744	0.921	17.62
	Male	29862	498.74	67.05	300	900	300	766	0.929	17.83
	Lang. Prof. NA	48375	506.67	60.90	300	900	300	766	0.917	17.50
	Lang. Prof. NEP	1416	381.10	55.28	300	900	300	584	0.844	21.84
	Lang. Prof. LEP	5286	434.90	46.64	300	900	300	626	0.841	18.59
	Lang. Prof. FEP	3730	489.14	48.92	300	900	300	688	0.880	16.92
	Not Mig. or Immig.	57972	497.00	64.51	300	900	300	766	0.925	17.72
	Mig. or Immig.	824	432.27	65.87	300	900	300	637	0.908	19.93
8	No Disability	51900	505.86	58.08	300	900	300	694	0.918	16.65
	Disability	5180	434.42	68.24	300	900	300	667	0.908	20.71
	No IEP	51896	505.86	58.09	300	900	300	694	0.918	16.65
	IEP	5178	434.43	68.25	300	900	300	667	0.908	20.70
	No Accommodation	52271	505.59	58.50	300	900	300	694	0.918	16.73
	Accommodation	4781	431.44	64.98	300	900	300	639	0.897	20.85
	Am. Indian/AK Nat.	627	479.93	63.62	300	900	300	647	0.915	18.53
	Asian/Pac. Isl.	2106	515.94	60.17	300	900	300	672	0.925	16.47
	Black	3380	465.57	62.71	300	900	300	667	0.902	19.65
	Hispanic	15225	464.58	60.94	300	900	300	642	0.902	19.11
	White	35743	516.77	55.31	300	900	300	694	0.914	16.25
	Free Lunch Elig.	15624	460.17	61.53	300	900	300	655	0.899	19.60
	Reduced Lunch Elig.	4554	486.98	56.79	300	900	300	654	0.903	17.72
	Not FRL Elig.	36876	517.54	55.21	300	900	300	694	0.914	16.18
	Female	27780	498.21	59.43	300	900	300	694	0.917	17.11
	Male	29299	500.49	65.33	300	900	300	688	0.929	17.43
	Lang. Prof. NA	48621	507.21	59.27	300	900	300	694	0.919	16.86
	Lang. Prof. NEP	770	384.10	56.44	300	900	300	555	0.797	25.44
	Lang. Prof. LEP	3045	427.39	51.13	300	900	300	597	0.825	21.38
	Lang. Prof. FEP	4644	483.70	50.64	300	900	300	634	0.888	16.92
	Not Mig. or Immig.	56288	500.30	62.01	300	900	300	694	0.923	17.24
	Mig. or Immig.	783	433.83	65.42	300	900	300	638	0.903	20.35

**Table 226. Subgroup Reliability for the CSAP Science Tests (Concluded)**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
10	No Disability	51555	505.70	58.62	300	900	300	707	0.919	16.63
	Disability	4289	430.27	68.42	300	900	300	671	0.904	21.20
	No IEP	51534	505.71	58.62	300	900	300	707	0.919	16.63
	IEP	4285	430.23	68.41	300	900	300	671	0.904	21.20
	No Accommodation	53041	503.78	59.87	300	900	300	707	0.921	16.82
	Accommodation	2697	424.02	69.23	300	900	300	676	0.904	21.49
	Am. Indian/AK Nat.	669	480.74	59.54	300	900	300	648	0.908	18.03
	Asian/Pac. Isl.	1841	510.75	63.99	300	900	300	680	0.928	17.18
	Black	3445	464.14	63.51	300	900	300	635	0.901	19.94
	Hispanic	14015	462.18	62.59	300	900	300	657	0.903	19.53
	White	35889	517.85	54.05	300	900	300	707	0.913	15.99
	Free Lunch Elig.	12456	458.37	63.16	300	900	300	665	0.900	19.96
	Reduced Lunch Elig.	3595	485.59	57.96	300	900	300	635	0.905	17.89
	Not FRL Elig.	39765	514.23	56.62	300	900	300	707	0.917	16.28
	Female	27303	497.79	58.79	300	900	300	682	0.916	17.02
	Male	28553	501.90	66.24	300	900	300	707	0.932	17.32
	Lang. Prof. NA	48424	507.61	58.77	300	900	300	707	0.920	16.64
	Lang. Prof. NEP	852	371.08	58.48	300	900	300	567	0.801	26.10
	Lang. Prof. LEP	2284	427.94	52.86	300	900	300	595	0.827	21.97
	Lang. Prof. FEP	4287	476.62	53.21	300	900	300	644	0.887	17.85
	Not Mig. or Immig.	55039	501.05	61.83	300	900	300	707	0.924	17.06
	Mig. or Immig.	772	419.95	73.21	300	900	300	624	0.903	22.82

**Table 227. Subgroup Reliability for the CSAP Spanish Reading Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
3	No Disability	1262	526.52	45.24	300	740	300	669	0.880	15.67
	Disability	100	477.23	61.51	300	740	300	632	0.876	21.67
	No IEP	1262	526.52	45.24	300	740	300	669	0.880	15.67
	IEP	100	477.23	61.51	300	740	300	632	0.876	21.67
	No Accommodation	1088	526.32	45.38	300	740	300	669	0.882	15.62
	Accommodation	274	509.33	56.72	300	740	300	651	0.896	18.31
	Am. Indian/AK Nat.	4*	.	.	.	.	.	.	.	.
	Asian/Pac. Isl.	.	.	.	.	.	.	.	.	.
	Black	2*	.	.	.	.	.	.	.	.
	Hispanic	1339	522.99	48.26	300	740	300	669	0.887	16.23
	White	17	508.53	56.92	300	740	371	619	0.885	19.28
	Free Lunch Elig.	1167	522.54	48.40	300	740	300	669	0.886	16.33
	Reduced Lunch Elig.	101	532.90	42.10	300	740	415	650	0.880	14.56
	Not FRL Elig.	94	516.74	52.67	300	740	300	634	0.894	17.16
	Female	727	528.39	46.14	300	740	300	659	0.883	15.80
	Male	635	516.62	50.05	300	740	300	669	0.888	16.77
	Lang. Prof. NA	6*	.	.	.	.	.	.	.	.
	Lang. Prof. NEP	859	506.45	46.86	300	740	300	648	0.868	17.05
	Lang. Prof. LEP	487	550.33	35.72	300	740	446	669	0.833	14.61
	Lang. Prof. FEP	10*	.	.	.	.	.	.	.	.
4	Not Mig. or Immig.	1247	523.14	48.67	300	740	300	669	0.890	16.16
	Mig. or Immig.	115	520.33	44.69	300	740	300	619	0.845	17.58
	No Disability	162	519.95	46.82	300	790	300	607	0.922	13.05
	Disability	4*	.	.	.	.	.	.	.	.
	No IEP	162	519.95	46.82	300	790	300	607	0.922	13.05
	IEP	4*	.	.	.	.	.	.	.	.
	No Accommodation	109	516.69	49.16	300	790	300	602	0.922	13.69
	Accommodation	57	518.96	52.62	300	790	300	607	0.932	13.75
	Am. Indian/AK Nat.	.	.	.	.	.	.	.	.	.
	Asian/Pac. Isl.	.	.	.	.	.	.	.	.	.
	Black	.	.	.	.	.	.	.	.	.
	Hispanic	163	517.46	50.48	300	790	300	607	0.926	13.75
	White	3*	.	.	.	.	.	.	.	.
	Free Lunch Elig.	130	517.58	52.56	300	790	300	607	0.925	14.36
	Reduced Lunch Elig.	12*	.	.	.	.	.	.	.	.
	Not FRL Elig.	24	521.08	40.37	300	790	454	585	0.926	10.95
	Female	87	522.90	52.17	300	790	300	607	0.927	14.11
	Male	79	511.49	47.60	300	790	300	594	0.922	13.33
	Lang. Prof. NA	3*	.	.	.	.	.	.	.	.
	Lang. Prof. NEP	144	515.38	51.69	300	790	300	607	0.926	14.05
	Lang. Prof. LEP	19	530.84	39.91	300	790	462	585	0.926	10.87
	Lang. Prof. FEP	.	.	.	.	.	.	.	.	.
	Not Mig. or Immig.	108	513.16	51.25	300	790	300	607	0.929	13.63
	Mig. or Immig.	58	525.50	47.65	300	790	300	602	0.913	14.04

\*Statistics are not provided for groups consisting of fewer than 16 students.

**Table 228. Subgroup Reliability for the CSAP Spanish Writing Tests**

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min.	Max.	Alpha	SEM
3	No Disability	1253	526.35	66.86	250	750	250	750	0.909	20.19
	Disability	98	462.71	75.10	250	750	250	633	0.925	20.57
	No IEP	1253	526.35	66.86	250	750	250	750	0.909	20.19
	IEP	98	462.71	75.10	250	750	250	633	0.925	20.57
	No Accommodation	1089	525.31	68.69	250	750	250	750	0.914	20.16
	Accommodation	262	506.85	70.75	250	750	250	677	0.922	19.79
	Am. Indian/AK	4*	.	.	.	.	.	.	.	.
	Asian/Pac. Isl.	.	.	.	.	.	.	.	.	.
	Black	2*	509.00	8.49	250	750	503	515	.	.
	Hispanic	1327	521.82	69.25	250	750	250	750	0.916	20.08
	White	18	512.56	88.72	250	750	264	610	.	.
	Free Lunch	1160	521.47	70.12	250	750	250	750	0.919	19.99
	Reduced Lunch	97	531.25	66.93	250	750	353	697	0.901	21.08
	Not FRL Elig.	94	515.14	63.10	250	750	302	677	0.897	20.26
	Female	721	532.58	68.20	250	750	250	750	0.916	19.79
	Male	630	509.31	68.84	250	750	250	715	0.913	20.26
	Lang. Prof. NA	10*	.	.	.	.	.	.	.	.
	Lang. Prof. NEP	849	497.02	64.50	250	750	250	697	0.906	19.73
	Lang. Prof. LEP	482	564.15	55.38	250	750	425	750	0.836	22.44
	Lang. Prof. FEP	10*	.	.	.	.	.	.	.	.
4	Not Mig. or Mig. or Immig.	1241	522.53	70.36	250	750	250	750	0.919	20.07
		110	512.69	57.64	250	750	364	658	0.886	19.45
	No Disability	162	510.72	43.44	300	790	338	621	0.873	15.49
	Disability	4*	.	.	.	.	.	.	.	.
	No IEP	162	510.72	43.44	300	790	338	621	0.873	15.49
	IEP	4*	.	.	.	.	.	.	.	.
	No Accommodation	109	508.42	46.67	300	790	300	604	0.870	16.82
	Accommodation	57	508.65	47.02	300	790	338	621	0.891	15.51
	Am. Indian/AK	.	.	.	.	.	.	.	.	.
	Asian/Pac. Isl.	.	.	.	.	.	.	.	.	.
	Black	.	.	.	.	.	.	.	.	.
	Hispanic	163	508.47	46.59	300	790	300	621	0.877	16.36
	White	3*	.	.	.	.	.	.	.	.
	Free Lunch	130	508.46	48.91	300	790	300	621	0.884	16.66
	Reduced Lunch	12*	.	.	.	.	.	.	.	.
	Not FRL Elig.	24	508.71	35.62	300	790	451	583	.	.
	Female	87	517.41	45.00	300	790	338	621	0.886	15.20
	Male	79	498.68	46.75	300	790	300	602	0.858	17.65
	Lang. Prof. NA	3*	.	.	.	.	.	.	.	.
	Lang. Prof. NEP	144	505.94	46.67	300	790	300	621	0.871	16.73
	Lang. Prof. LEP	19	526.95	47.14	300	790	417	602	0.916	13.69
	Lang. Prof. FEP	.	.	.	.	.	.	.	.	.
	Not Mig. or Mig. or Immig.	108	507.05	46.46	300	790	338	621	0.880	16.08
		58	511.21	47.29	300	790	300	604	0.872	16.92

\*Statistics are not provided for groups consisting of fewer than 16 students.

**Table 229. Scale Scores by Accommodation and Disability Classification**

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Reading	3	No Disability	47294	575.37	62.96	7079	510.84	80.29
			1832	517.34	92.82	3609	450.81	109.53
		Disability						
		No IEP	47289	575.37	62.96	7080	510.86	80.32
			1832	517.32	92.84	3607	450.72	109.47
		IEP						
	4	No Disability	45894	602.40	54.61	7683	548.21	66.48
			1742	543.95	84.91	4205	495.98	89.18
		Disability						
		No IEP	45890	602.41	54.61	7681	548.23	66.46
			1740	543.83	84.92	4206	495.97	89.19
		IEP						
	5	No Disability	46135	626.77	56.12	6633	571.07	69.02
			1677	561.64	88.54	4279	519.02	87.60
		Disability						
		No IEP	46135	626.77	56.12	6634	571.02	69.15
			1673	561.47	88.57	4278	519.09	87.49
		IEP						
	6	No Disability	47193	640.75	55.71	4706	588.50	73.79
			1883	570.10	83.39	3747	533.79	92.78
		Disability						
		No IEP	47191	640.75	55.72	4708	588.50	73.77
			1883	570.08	83.37	3745	533.77	92.79
		IEP						
	7	No Disability	49044	650.40	56.06	2957	589.15	78.09
			2223	572.64	81.86	3137	545.25	84.36
		Disability						
		No IEP	49040	650.40	56.06	2959	589.11	78.09
			2225	572.71	81.88	3135	545.26	84.38
		IEP						
	8	No Disability	49307	656.48	51.59	2583	609.01	66.35
			2330	588.53	69.11	2843	566.55	68.17
		Disability						
		No IEP	49301	656.48	51.60	2582	609.01	66.37
			2328	588.60	68.98	2842	566.57	68.18
		IEP						
	9	No Disability	52685	666.28	47.06	1184	603.72	68.15
			2809	598.96	66.40	2192	588.01	68.66
		Disability						
		No IEP	52669	666.29	47.07	1182	603.81	68.08
			2810	598.99	66.41	2194	587.98	68.69
		IEP						
	10	No Disability	50448	691.43	49.47	952	630.83	66.52
			2514	621.73	64.26	1731	615.55	62.74
		Disability						
		No IEP	50422	691.45	49.45	955	630.72	66.46
			2517	621.66	64.26	1728	615.58	62.78
		IEP						

**Table 229. Scale Scores by Accommodation and Disability Classification (Continued)**

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Writing	3	No Disability	47565	478.96	46.55	6870	434.50	45.86
		Disability	1693	442.61	53.80	3786	408.20	52.20
		No IEP	47564	478.96	46.55	6873	434.51	45.85
		IEP	1690	442.59	53.82	3782	408.16	52.21
	4	No Disability	45915	495.93	48.41	7638	457.37	47.67
		Disability	1577	453.58	54.61	4369	428.29	44.14
		No IEP	45911	495.94	48.41	7636	457.39	47.66
		IEP	1575	453.50	54.61	4370	428.26	44.14
	5	No Disability	46012	519.33	50.32	6736	479.02	51.31
		Disability	1497	470.42	54.79	4473	445.16	45.84
		No IEP	46013	519.33	50.32	6736	479.01	51.32
		IEP	1492	470.32	54.87	4473	445.18	45.84
	6	No Disability	47415	538.81	53.82	4252	490.98	58.16
		Disability	1745	480.29	52.94	3891	453.90	49.87
		No IEP	47413	538.80	53.82	4254	490.97	58.15
		IEP	1745	480.30	52.95	3889	453.89	49.88
	7	No Disability	48969	569.59	62.69	3025	509.94	67.48
		Disability	2025	496.37	61.01	3342	476.17	52.90
		No IEP	48966	569.59	62.69	3026	509.88	67.54
		IEP	2026	496.43	61.14	3341	476.21	52.85
	8	No Disability	49254	570.86	62.84	2638	515.28	72.80
		Disability	2153	496.03	60.35	3024	475.90	54.30
		No IEP	49249	570.86	62.84	2637	515.31	72.80
		IEP	2151	496.05	60.35	3023	475.90	54.30
	9	No Disability	52580	576.14	71.49	1286	487.74	80.92
		Disability	2699	485.40	65.66	2268	474.91	63.78
		No IEP	52565	576.15	71.49	1284	487.78	80.94
		IEP	2700	485.45	65.67	2270	474.90	63.78
	10	No Disability	50387	588.20	76.23	1055	497.84	82.72
		Disability	2505	489.21	65.15	1765	481.39	61.93
		No IEP	50360	588.23	76.23	1058	497.72	82.66
		IEP	2509	489.09	65.09	1762	481.43	61.96

**Table 229. Scale Scores by Accommodation and Disability Classification (Continued)**

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Mathematics	3	No Disability	48488	475.25	81.25	7193	405.21	73.37
		Disability	1802	428.06	89.66	3798	368.18	81.64
		No IEP	48488	475.24	81.25	7197	405.21	73.38
		IEP	1798	428.13	89.62	3793	368.12	81.62
	4	No Disability	47619	508.04	72.54	6173	439.69	69.79
		Disability	1729	456.10	88.10	4266	400.42	77.00
		No IEP	47616	508.04	72.54	6171	439.74	69.75
		IEP	1727	455.97	88.07	4267	400.40	77.01
	5	No Disability	47062	531.64	69.16	5752	467.04	68.46
		Disability	1668	474.08	86.92	4328	418.69	75.70
		No IEP	47061	531.64	69.16	5754	467.00	68.53
		IEP	1663	474.01	87.05	4325	418.71	75.66
	6	No Disability	48005	553.76	69.19	3989	494.66	75.96
		Disability	1864	484.23	79.86	3794	439.95	79.93
		No IEP	48002	553.76	69.20	3988	494.68	75.94
		IEP	1863	484.33	79.87	3795	439.95	79.94
	7	No Disability	49055	573.25	64.92	2940	518.67	74.08
		Disability	2033	497.44	82.14	3343	463.56	80.77
		No IEP	49050	573.25	64.92	2943	518.55	74.15
		IEP	2035	497.55	82.18	3339	463.59	80.76
	8	No Disability	49085	581.95	55.95	2838	544.75	65.63
		Disability	2192	514.24	71.52	2997	491.16	65.66
		No IEP	49081	581.95	55.96	2837	544.80	65.61
		IEP	2191	514.33	71.40	2995	491.15	65.68
	9	No Disability	52632	578.11	69.02	1362	512.75	83.60
		Disability	2727	486.26	79.30	2284	475.59	79.95
		No IEP	52618	578.12	69.02	1359	512.80	83.65
		IEP	2728	486.22	79.31	2286	475.58	79.92
	10	No Disability	50465	595.58	67.56	1081	537.19	79.24
		Disability	2451	505.78	73.61	1829	496.27	76.71
		No IEP	50437	595.62	67.54	1085	537.13	79.25
		IEP	2456	505.70	73.65	1825	496.22	76.70

**Table 229. Scale Scores by Accommodation and Disability Classification (Concluded)**

Content Area	Grade	Disability Classification	Accommodation						
			No Accommodation			Accommodation			
			N	Mean	SD	N	Mean	SD	
Science	5	No Disability	48172	507.75	59.34	4631	446.10	57.93	
		Disability	1840	466.25	70.85	4136	429.73	61.88	
		No IEP	48166	507.75	59.33	4634	446.13	57.96	
	8	IEP	1836	466.16	70.87	4133	429.68	61.83	
		No Disability	49923	508.25	56.48	1947	444.74	65.04	
		Disability	2345	449.03	71.04	2833	422.31	63.36	
	10	No IEP	49920	508.25	56.48	1946	444.76	65.04	
		IEP	2344	449.08	71.02	2832	422.29	63.37	
		No Disability	50487	507.27	57.21	967	424.46	72.67	
	Spanish Reading	3	Disability	2548	434.75	68.86	1729	423.85	67.21
			No IEP	50463	507.28	57.21	970	424.51	72.70
			IEP	2548	434.68	68.87	1726	423.82	67.19
Spanish Reading	4	No Disability	1042	527.91	43.86	220	519.94	50.87	
		Disability	46	490.28	62.18	54	466.11	59.24	
		No IEP	1042	527.91	43.86	220	519.94	50.87	
	4	IEP	46	490.28	62.18	54	466.11	59.24	
		No Disability	107	518.85	44.86	55	522.09	50.78	
		Disability	2*	.	.	2*	.	.	
Spanish Writing	3	No IEP	107	518.85	44.86	55	522.09	50.78	
		IEP	2*	.	.	2*	.	.	
		No Disability	1042	527.66	67.50	211	519.88	63.33	
	4	Disability	47	473.30	74.67	51	452.96	74.89	
		No IEP	1042	527.66	67.50	211	519.88	63.33	
		IEP	47	473.30	74.67	51	452.96	74.89	

\*Statistics are not provided for groups consisting of fewer than 16 students.



**Table 230. Overall Estimates of Standard Error of Measurement**

<b>Content Area</b>	<b>Grade</b>	<b>Standard Error of Measurement</b>
Reading	3	27.22
Reading	4	17.68
Reading	5	17.95
Reading	6	17.72
Reading	7	17.95
Reading	8	16.69
Reading	9	14.61
Reading	10	13.69
Spanish Reading	3	16.72
Spanish Reading	4	13.65
Writing	3	14.10
Writing	4	15.17
Writing	5	17.18
Writing	6	18.11
Writing	7	20.15
Writing	8	21.35
Writing	9	21.74
Writing	10	23.69
Spanish Writing	3	20.84
Spanish Writing	4	17.00
Mathematics	3	27.70
Mathematics	4	19.64
Mathematics	5	19.04
Mathematics	6	18.94
Mathematics	7	18.25
Mathematics	8	15.89
Mathematics	9	19.97
Mathematics	10	19.18
Science	5	17.64
Science	8	17.35
Science	10	17.39

**Table 231. 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	204														
175	179	180	199												
200	155	200	179	220	171										
225	133	225	154	225	166										
250	114	250	130	250	141	260	201								
275	97	275	107	275	119	275	186								
300	82	300	88	300	100	300	161	300	115						
325	69	325	71	325	83	325	136	325	100	330	96				
350	55	350	58	350	68	350	111	350	86	350	83	350	118	370	166
375	44	375	46	375	56	375	91	375	73	375	70	375	99	375	161
400	34	400	38	400	45	400	72	400	62	400	58	400	83	400	136
425	26	425	30	425	35	425	56	425	50	425	48	425	70	425	111
450	22	450	25	450	28	450	42	450	40	450	39	450	58	450	88
475	20	475	20	475	22	475	31	475	31	475	31	475	47	475	68
500	19	500	17	500	18	500	24	500	25	500	25	500	38	500	52
525	19	525	14	525	16	525	19	525	19	525	20	525	29	525	39
550	20	550	13	550	14	550	16	550	16	550	16	550	21	550	29
575	22	575	13	575	13	575	13	575	14	575	14	575	15	575	20
600	23	600	13	600	13	600	13	600	14	600	13	600	12	600	15
625	25	625	14	625	14	625	12	625	13	625	13	625	11	625	12
650	28	650	16	650	15	650	13	650	14	650	13	650	10	650	10
675	31	675	18	675	16	675	14	675	14	675	14	675	11	675	10
700	36	700	20	700	19	700	15	700	15	700	15	700	11	700	10
725	41	725	24	725	22	725	17	725	18	725	16	725	13	725	11
750	47	750	30	750	27	750	20	750	21	750	19	750	15	750	13
775	54	775	36	775	32	775	23	775	26	775	23	775	19	775	16
795	59	800	43	800	38	800	28	800	31	800	28	800	25	800	20
		825	51	825	44	825	34	825	37	825	35	825	32	825	26
		850	60	850	52	850	41	850	44	850	43	850	41	850	34
		875	70	875	60	875	51	875	51	875	53	875	51	875	43
		900	81	900	71	900	62	900	60	900	65	900	62	900	54
		925	95	925	83	925	77	925	70	925	78	925	73	925	68
		940	104	950	96	950	95	950	81	950	95	950	86	950	84
				955	99	970	112	975	93	975	113	975	98	975	104
								980	96	990	125	995	108	999	126

**Table 232. 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	145														
175	120	190	66												
200	95	200	61	220	60										
225	70	225	49	225	58	230	53	240	53						
250	49	250	40	250	46	250	45	250	49	250	52	260	49	270	45
275	35	275	32	275	37	275	37	275	41	275	42	275	44	275	43
300	25	300	27	300	31	300	31	300	35	300	35	300	37	300	37
325	19	325	22	325	27	325	27	325	31	325	29	325	33	325	33
350	15	350	19	350	24	350	23	350	27	350	26	350	30	350	29
375	13	375	15	375	21	375	20	375	24	375	23	375	27	375	27
400	11	400	13	400	18	400	19	400	22	400	21	400	25	400	25
425	10	425	11	425	15	425	17	425	20	425	19	425	23	425	22
450	11	450	11	450	13	450	16	450	17	450	17	450	20	450	20
475	14	475	13	475	13	475	14	475	16	475	16	475	17	475	18
500	18	500	15	500	14	500	14	500	15	500	16	500	16	500	17
525	22	525	19	525	16	525	15	525	16	525	17	525	16	525	17
550	27	550	22	550	19	550	17	550	17	550	18	550	17	550	19
575	32	575	26	575	22	575	18	575	19	575	20	575	18	575	20
600	40	600	31	600	25	600	19	600	21	600	22	600	20	600	22
625	53	625	35	625	30	625	22	625	22	625	24	625	23	625	24
650	74	650	41	650	34	650	26	650	24	650	26	650	25	650	25
675	99	675	48	675	40	675	31	675	25	675	28	675	28	675	26
680	104	700	58	700	48	700	36	700	28	700	32	700	30	700	28
		725	71	725	57	725	42	725	33	725	36	725	32	725	30
		730	74	750	68	750	49	750	38	750	42	750	34	750	34
				775	82	775	58	775	46	775	49	775	38	775	38
				780	86	800	69	800	54	800	58	800	46	800	44
						825	83	825	65	825	68	825	56	825	52
						840	93	850	79	850	81	850	67	850	62
								875	95	875	95	875	80	875	73
								890	107	900	112	900	95	900	86
										910	120	925	112	925	100
												930	115	950	117

**Table 233. 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	64		
					275	50		
300	128	300	101		300	39	300	62
325	103	325	80		325	30	325	47
350	78	350	62		350	24	350	36
375	56	375	48		375	20	375	28
400	39	400	35		400	18	400	22
425	26	425	25		425	17	425	19
450	17	450	18		450	17	450	17
475	13	475	13		475	17	475	15
500	12	500	10		500	18	500	13
525	12	525	9		525	20	525	11
550	14	550	9		550	22	550	11
575	16	575	10		575	24	575	12
600	19	600	12		600	26	600	15
625	24	625	15		625	29	625	20
650	32	650	22		650	33	650	26
675	42	675	30		675	40	675	32
700	55	700	38		700	50	700	41
725	69	725	48		725	64	725	51
740	79	750	58		750	81	750	63
		775	69				775	78
		790	76				790	88

**Table 234. 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	69														
175	59	180	58												
200	51	200	51	220	58										
225	44	225	43	225	56	240	57								
250	39	250	36	250	47	250	54								
275	34	275	31	275	40	275	48	280	86						
300	30	300	27	300	34	300	43	300	74	310	108				
325	27	325	23	325	29	325	38	325	62	325	94	340	74		
350	25	350	21	350	25	350	34	350	52	350	73	350	69	370	65
375	23	375	19	375	22	375	30	375	44	375	57	375	58	375	63
400	22	400	17	400	19	400	26	400	37	400	44	400	49	400	53
425	21	425	16	425	17	425	23	425	31	425	35	425	41	425	45
450	22	450	15	450	16	450	20	450	26	450	27	450	35	450	38
475	23	475	15	475	15	475	18	475	21	475	22	475	30	475	33
500	25	500	15	500	14	500	16	500	18	500	19	500	25	500	28
525	29	525	17	525	15	525	14	525	15	525	16	525	21	525	24
550	33	550	19	550	15	550	13	550	13	550	13	550	17	550	20
575	39	575	23	575	17	575	14	575	13	575	12	575	14	575	16
600	46	600	28	600	18	600	15	600	12	600	11	600	12	600	14
625	54	625	34	625	21	625	17	625	13	625	11	625	11	625	12
650	65	650	41	650	24	650	19	650	14	650	11	650	11	650	11
675	78	675	50	675	29	675	23	675	17	675	12	675	12	675	11
700	94	700	59	700	35	700	29	700	21	700	14	700	13	700	12
		725	70	725	44	725	36	725	26	725	19	725	16	725	14
		750	81	750	53	750	45	750	32	750	26	750	21	750	18
		775	94	775	64	775	56	775	40	775	37	775	28	775	23
		780	97	800	77	800	69	800	49	800	51	800	37	800	30
						825	84	825	61	825	68	825	48	825	39
						830	88	850	74	850	90	850	61	850	51
								860	80	875	114	875	77	875	65
										890	129	900	95	900	82
												920	112	925	103
														950	128

**Table 235. Science Scale Scores and Associated Standard Errors**

SC 5		SC 8		SC 10	
SS	SE	SS	SE	SS	SE
300	36	300	54	300	54
325	30	325	43	325	43
350	26	350	34	350	34
375	22	375	27	375	27
400	19	400	22	400	21
425	16	425	19	425	18
450	15	450	17	450	16
475	15	475	15	475	14
500	15	500	14	500	14
525	16	525	13	525	13
550	17	550	13	550	13
575	18	575	13	575	13
600	21	600	14	600	13
625	24	625	15	625	15
650	28	650	17	650	18
675	32	675	19	675	23
700	38	700	24	700	29
725	44	725	29	725	36
750	52	750	36	750	46
775	61	775	45	775	56
800	72	800	56	800	69
825	86	825	69	825	84
850	101	850	84	850	101
875	120	875	100	875	122
900	141	900	118	900	145

**Table 236. Cut Scores for the 2009 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	300-428	429-507	508-568	569-900
English	Science	8	300-458	459-506	507-578	579-900
English	Science	10	300-468	469-506	507-580	581-900

**Table 237. Alignment Summary, Reading and 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	5	5	100%
	3	32	5	4	80%
4	1	28	8	6	75%
	2	21	5	5	100%
	3	32	5	5	100%
	4	13	5	5	100%
	5	17	6	4	67%
	6	12	4	3	75%
5	1	22*	7	5	71%
	2	20*	7	7	100%
	3	32	5	5	100%
	4	19	5	5	100%
	5	17	7	5	71%
	6	11	4	2	50%
6	1	24	7	6	86%
	2	21	7	7	100%
	3	32	5	5	100%
	4	19	5	5	100%
	5	15	7	6	86%
	6	12	4	3	75%
7	1	23	9	5	56%
	2	21	8	8	100%
	3	32	6	6	100%
	4	17*	5	3	60%
	5	16	7	6	86%
	6	13	4	4	100%
8	1	25	7	6	86%
	2	21	7	7	100%
	3	32	6	6	100%
	4	17	5	3	60%
	5	14	6	4	67%
	6	14	4	4	100%
9	1	21	7	6	86%
	2	21	8	7	87%
	3	32	6	5	100%
	4	13	5	3	60%
	5	18*	6	4	67%
	6	17	5	4	80%
10	1	23	7	5	71%
	2	21	8	7	87%
	3	32	5	5	100%
	4	13	6	4	67%
	5	19	6	5	83%
	6	15	4	3	75%

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



**Table 238. 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	10*	10	7	70%
	4/5	14	15	12	80%
	6	7	9	6	67%
4	1	12	11	6	55%
	2	10*	6	5	83%
	3	11	6	6	100%
	4/5	21	15	12	80%
	6	14	10	8	80%
5	1	16	13	13	100%
	2	12	7	6	86%
	3	10*	15	7	47%
	4/5	15	22	13	59%
	6	15	12	9	75%
6	1	12	8	8	100%
	2	9*	6	4	67%
	3	11	9	8	89%
	4/5	16	17	12	71%
	6	11	8	5	63%
7	1/6	19	18	10	56%
	2	12	5	5	100%
	3	12	9	7	78%
	4/5	17	14	14	100%
8	1/6	15	10	8	80%
	2	14	6	5	83%
	3	12	9	7	78%
	4/5	19	11	11	100%
9	1/6	13	9	7	78%
	2	17	12	11	92%
	3	14	14	12	86%
	4/5	16	9	8	89%
10	1/6	14	10	9	90%
	2	17	14	11	79%
	3	15	22	11	50%
	4/5	14	17	10	59%

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

**Table 239. 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	1/5	29*	11	11	100%
	2	15	16	13	81%
	3	14	13	11	85%
	4	16	13	12	92%
8	1/5	34	22	16	73%
	2	17	27	15	56%
	3	15	24	14	58%
	4	17	24	13	54%
10	1/5	29*	24	18	75%
	2	17	14	13	93%
	3	18	28	18	64%
	4	18	19	15	79%

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

**Table 240. Alignment Summary, Spanish Reading and 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	3	75%

**Table 241. Items Flagged for DIF by Ethnicity Focal Group**

Content Area	Grade	Item #	Item Type	Ethnicity Focal Group <sup>1</sup>											
				Am. Indian/ AK Native			Asian/Pacific Islander			Black			Hispanic		
				Flag	N	Obs- Prd	Flag	N	Obs- Prd	Flag	N	Obs- Prd	Flag	N	Obs- Prd
Mathematics	3	5	CR	*	698	-0.101				+	3673	0.104			
	4	63	CR							*	3668	-0.117			
	4	69	CR				+	2210	0.106						
	5	46	CR							*	3625	-0.167			
	8	27	MC										*	15236	-0.108
	9	55	CR				+	2000	0.109						
	10	27	CR				*	1844	-0.155						
Reading	4	23	CR				+	2207	0.121						
	4	109	CR				+	2207	0.110						
	5	99	CR				+	2181	0.161						
	6	29	CR				+	2164	0.141						
	6	111	CR				+	2164	0.181						
	7	14	CR				+	2057	0.120						
	7	95	CR				*	2057	-0.101						
	8	28	CR				+	2104	0.136				+	15229	0.108
	8	29	CR							+	3386	0.101			
	8	96	CR				*	2104	-0.103						
	8	112	MC							*	3386	-0.103			
	9	5	CR				+	2004	0.127						
	9	9	MC				*	2004	-0.112						
	9	13	CR				+	2004	0.132						
	9	15	CR							+	3659	0.127			
	9	25	CR							*	3659	-0.119	+	15935	0.105
	9	43	CR				+	2004	0.114						
	9	45	CR				+	2004	0.242						
	9	100	CR				+	2004	0.103						
	10	10	CR										+	13998	0.103
	10	45	CR				+	1835	0.112						
	10	95	CR				+	1835	0.116						
	10	106	CR				+	1835	0.110						
Science	8	22	CR	*	627	-0.109	+	2106	0.148				+	15224	0.163
	8	76	CR				+	2106	0.103						
	10	22	CR				+	1841	0.220				+	14014	0.160
	10	23	CR				+	1841	0.113	+	3445	0.157			
Writing	3	6	MC										*	17308	-0.105
	4	51	CR							+	3616	0.124	+	17616	0.111
	5	3A	CR												
	7	2D	CR				*	2053	-0.147						
	7	89	MC										*	15807	-0.107
	7	92	CR										+	15807	0.100
	8	79	MC				*	2104	-0.100						
	9	2D	CR				*	2002	-0.125						
	9	55	MC				*	2002	-0.171						
	9	56	MC				+	2002	0.175						
	9	96	CR				+	2002	0.117						
	9	116	CR				+	2002	0.114						
	10	94	CR				+	1833	0.108						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 242. 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	+	28083	0.111			
	8	28	CR	+	27801	0.102			
	9	40	CR	+	28785	0.144	*	30255	-0.117
Reading	8	111	CR	+	27790	0.112	*	29292	-0.108
	9	28	CR	+	28733	0.111			
	9	43	CR				*	30187	-0.108
	10	10	CR	+	27237	0.123			
Science	8	22	CR	+	27779	0.119			
Writing	6	79	CR	+	28124	0.122	*	29242	-0.122
	7	60	CR				*	29291	-0.107
	8	22	CR	+	27791	0.116	*	29292	-0.118
	8	88	CR				*	29292	-0.104
	9	96	CR	+	28728	0.120	*	30193	-0.124
	10	74	CR	+	27271	0.115	*	28502	-0.136

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 243. Items Flagged for DIF by Accommodations Focal Group**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	3	5	CR													*	706	-0.107
	3	9	CR							+	588	0.178						
	3	13	CR				*	6338	-0.102									
	3	20	CR													+	706	0.106
	3	31	CR													+	706	0.140
	3	32	MC							*	588	-0.119						
	3	38	CR				+	6338	0.173	+	588	0.144						
	3	40	CR							+	588	0.128						
	4	7	CR							+	697	0.166				*	329	-0.211
	4	10	CR							+	697	0.113						
	4	23	CR							+	697	0.130						
	4	24	MC							+	697	0.135						
	4	28	CR				+	5389	0.194	+	697	0.193				+	329	0.128
	4	29	MC													*	329	-0.104
	4	35	MC							*	697	-0.124				*	329	-0.216
	4	36	CR															
	4	56	CR							+	697	0.303						
	4	59	CR													+	329	0.102
	4	64	MC													*	329	-0.105
	4	67	MC													+	329	0.106
	4	69	CR							*	697	-0.150				+	329	0.248
	5	3	CR													+	235	0.120
	5	4	MC													*	235	-0.108
	5	22	MC													*	235	-0.109
	5	23	CR										*	1243	-0.107			
	5	27	MC													+	235	0.120
	5	32	MC							+	690	0.112						
	5	37	CR							+	690	0.105						
	5	38	MC													+	235	0.108
	5	39	MC							+	690	0.112						
	5	43	MC													+	235	0.103
	5	46	CR							+	690	0.275						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	5	52	CR													+	235	0.131
	5	54	CR				*	4980	-0.111	+	690	0.171				*	235	-0.159
	5	64	MC													+	235	0.107
	6	5	CR													*	316	-0.156
	6	8	CR				+	3161	0.100									
	6	33	CR				*	3161	-0.123	*	377	-0.180						
	6	37	CR							+	377	0.137						
	6	47	MC													+	316	0.108
	6	48	CR							+	377	0.148				*	316	-0.123
	6	51	CR				+	3161	0.104	+	377	0.148				+	316	0.175
	6	56	CR							*	377	-0.105						
	7	3	CR													+	382	0.159
	7	11	CR													*	382	-0.123
	7	27	MC							+	298	0.107						
	7	35	MC				+	2278	0.157	+	298	0.125	+	1134	0.116	+	382	0.122
	7	36	MC													*	382	-0.110
	7	39	MC													*	382	-0.103
	7	40	CR				+	2278	0.106	+	298	0.170						
	7	43	CR				*	2278	-0.112							*	382	-0.123
	7	57	CR													*	382	-0.114
	7	60	CR							*	298	-0.143						
	8	2	CR							*	220	-0.193						
	8	19	MC													*	269	-0.112
	8	20	CR													+	269	0.173
	8	27	MC				*	1927	-0.112				*	952	-0.124	*	269	-0.113
	8	28	CR							*	220	-0.171						
	8	29	MC				*	1927	-0.112	*	220	-0.107						
	8	38	MC							+	220	0.123						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	8	40	CR							+	220	0.189						
	8	50	CR				+	1927	0.107									
	8	53	MC				+	1927	0.107									
	8	56	CR										*	952	-0.131			
	8	60	CR				+	1927	0.126				+	952	0.103	+	269	0.166
	9	2	MC													+	366	0.112
	9	4	CR							*	121	-0.187						
	9	6	CR				+	1011	0.112							*	366	-0.139
	9	20	CR															
	9	28	MC				*	1011	-0.103									
	10	5	CR													*	376	-0.121
	10	6	MC													+	376	0.106
	10	12	CR													+	376	0.144
	10	31	CR													*	376	-0.115
	10	37	MC										+	340	0.129			
Reading	3	16	CR							+	1034	0.149						
	3	28	CR							+	1034	0.131						
	4	5	CR							*	1033	-0.141						
	4	29	CR							*	1033	-0.139						
	4	40	CR													*	125	-0.165
	4	48	CR							+	1033	0.124						
	4	109	CR							+	1033	0.155						
	5	14	CR													*	138	-0.185
	5	21	MC													+	138	0.123
	5	28	CR	+	5587	0.113												
	5	29	MC													+	138	0.114
	5	50	CR							+	960	0.181						
	5	94	MC							*	960	-0.102						
	5	105	CR													*	138	-0.160
	6	8	MC													+	143	0.119
	6	20	CR							+	523	0.173				*	143	-0.306
	6	29	MC													*	143	-0.264

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	6	35	MC													+	143	0.113
	6	108	MC													+	143	0.132
	7	4	CR													*	177	-0.179
	7	5	CR							+	410	0.137						
	7	8	MC							+	410	0.109						
	7	14	CR							*	410	-0.109						
	7	36	MC													*	177	-0.103
	7	44	CR							+	410	0.107						
	7	45	MC													*	177	-0.127
	7	99	MC													+	177	0.111
	8	12	CR													*	163	-0.180
	8	13	MC							*	322	-0.107						
	8	28	CR	+	3041	0.120				*	322	-0.130				*	163	-0.178
	8	30	CR								322	0.106						
	8	39	CR							+	322	0.106						
	8	46	MC													+	163	0.102
	8	103	CR	+	3041	0.116												
	8	111	CR										+	1899	0.135			
	8	112	MC													+	163	0.111
	9	5	CR	*	2111	-0.105				*	167	-0.215				*	130	-0.256
	9	15	CR							*	167	-0.228						
	9	27	MC													+	130	0.163
	9	53	MC							+	167	0.104						
	9	105	CR													+	130	0.116
	10	19	MC							*	146	-0.113						
	10	45	CR							+	146	0.130						
	10	50	CR	+	1753	0.130												
Science	5	7	CR													*	213	-0.109
	5	17	MC							*	761	-0.127						
	5	25	CR							+	761	0.182						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.



**Table 243. Items Flagged for DIF by Accommodations Focal Group (Continued)**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Science	5	48	CR													*	213	-0.114
	5	60	MC													+	213	0.107
	5	62	MC													*	213	-0.111
	5	64	MC				+	4868	0.139									
	5	65	MC													+	213	0.115
	5	68	MC													+	213	0.102
	5	70	MC													+	213	0.110
	8	9	MC							+	258	0.153						
	8	19	CR													*	291	-0.130
	8	22	CR				*	1966	-0.159	*	258	-0.442						
	8	30	MC													*	291	-0.124
	8	42	CR				*	1966	-0.135	*	258	-0.158						
	8	47	MC							*	258	-0.114						
	8	49	CR													*	291	-0.127
	8	53	CR													+	291	0.202
	8	56	MC							+	258	0.115						
	8	58	CR							+	258	0.148						
	8	69	CR							+	258	0.116						
	8	82	MC													+	291	0.116
	10	6	MC				*	707	-0.105	*	111	-0.156						
	10	16	MC							+	111	0.117						
	10	18	MC							*	111	-0.148						
	10	22	CR	*	1083	-0.124	*	707	-0.189	*	111	-0.509						
	10	23	CR				*	707	-0.110				*	350	-0.146			
	10	31	CR				*	707	-0.116									
	10	36	CR							+	111	0.152						
	10	40	CR	+	1083	0.104												
	10	51	MC							*	111	-0.112						
	10	67	MC							*	111	-0.107						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (Continued)

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Science	10	82	CR							*	111	-0.141						
Writing	3	1A	CR							*	1016	-0.127						
	3	1E	CR							*	1016	-0.151						
	3	4	MC				+	5425	0.151	+	1016	0.140						
	3	6	MC													*	148	-0.173
	3	9	MC													*	148	-0.139
	3	28D	CR							+	1016	0.124						
	3	31	MC							*	1016	-0.108						
	3	39D	CR							+	1016	0.167						
	4	2B	CR							*	954	-0.124						
	4	2C	CR							+	954	0.108				+	192	0.123
	4	2D	CR							*	954	-0.113				*	192	-0.112
	4	2E	CR							*	954	-0.123						
	4	3A	CR							+	954	0.130						
	4	3B	CR				*	4635	-0.113	+	954	0.125						
	4	3C	CR							+	954	0.116						
	4	51	CR				+	4635	0.105	+	954	0.273						
	4	57	MC							+	954	0.110						
	4	61	MC							*	954	-0.121						
	4	64	CR							+	954	0.266						
	4	74	MC													+	192	0.177
	4	77	MC				+	4635	0.140									
	4	78	MC				+	4635	0.120									
	4	91	MC				+	4635	0.137	+	954	0.102						
	4	93	CR							+	954	0.235						
	5	3A	CR							+	922	0.205						
	5	3B	CR							+	922	0.137				*	239	-0.203
	5	3C	CR							+	922	0.110				*	239	-0.116

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

**Table 243. Items Flagged for DIF by Accommodations Focal Group (Continued)**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	5	52	MC							*	922	-0.117						
	5	61	MC							*	922	-0.102						
	5	69	CR							+	922	0.200						
	5	76	MC							*	922	-0.114						
	5	82	MC							+	922	0.105						
	5	92	CR							+	922	0.296						
	5	116	CR													*	239	-0.141
	6	2D	CR							*	510	-0.140						
	6	3C	CR							+	510	0.124						
	6	59	MC													*	354	-0.106
	6	73	MC													+	354	0.104
	6	100	CR										+	1311	0.161			
	7	2C	CR							*	414	-0.104						
	7	2D	CR				*	2018	-0.109									
	7	3A	CR				+	2018	0.101									
	7	3C	CR							+	414	0.104						
	7	60	CR	+	2344	0.111												
	7	77	MC													+	403	0.113
	7	79	MC							+	414	0.118						
	7	92	CR										+	1185	0.103			
	8	2A	CR							*	312	-0.126						
	8	2B	CR													*	392	-0.103
	8	2F	CR				*	1714	-0.125									
	8	3A	CR										+	966	0.100			
	8	3C	CR							+	312	0.127						
	8	22	CR	+	2276	0.122	+	1714	0.109									
	8	49	MC													*	392	-0.101
	8	50	MC										*	966	-0.104			
	8	62	MC				*	1714	-0.107	*	312	-0.112						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

**Table 243. Items Flagged for DIF by Accommodations Focal Group (Concluded)**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	8	63	CR	+	2276	0.112												
	8	65	MC													*	392	-0.113
	8	88	CR	+	2276	0.111	+	1714	0.147	+	312	0.134	+	966	0.141	+	447	0.224
	9	2A	CR										*	486	-0.106	*	447	-0.109
	9	2C	CR													*	447	-0.118
	9	57	MC															
	9	116	CR				+	895	0.107									
	10	2C	CR							*	159	-0.127				+	445	0.209
	10	2E	CR				*	649	-0.147	*	159	-0.114	*	343	-0.136	*	445	-0.181
	10	2F	CR				*	649	-0.117							*	445	-0.114
	10	27	CR				+	649	0.164									
	10	56	MC													+	445	0.101
	10	62	MC													*	445	-0.107
	10	74	CR				+	649	0.127									
	10	82	MC													*	445	-0.167
	10	87	MC													+	445	0.142
	10	88	MC													*	445	-0.112
	10	94	CR	+	1225	0.104	+	649	0.220				+	343	0.135	+	445	0.103

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

**Table 244. 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			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	3	13	CR				*	2254	-0.104									
	3	27	MC	+	363	0.126												
	3	32	MC				*	2254	-0.110									
	3	38	CR	+	363	0.115	+	2254	0.156									
	4	7	CR				+	2940	0.104									
	4	23	CR													+	337	0.160
	4	24	MC	+	438	0.117												
	4	28	CR				+	2940	0.147									
	4	35	MC	*	438	-0.111												
	4	36	CR	*	438	-0.116												
	4	69	CR							*	628	-0.150						
	5	3	CR	+	487	0.102												
	5	15	CR													*	359	-0.117
	5	32	MC													+	359	0.115
	5	38	MC				+	3114	0.113									
	5	44	CR	*	487	-0.113	*	3114	-0.111	*	764	-0.164						
	5	46	CR				+	3114	0.124							+	359	0.187
	5	53	MC	*	487	-0.105												
	5	69	CR	*	487	-0.190												
	6	16	CR							+	778	0.117	+	907	0.124	+	337	0.122
	6	20	CR										+	907	0.111			
	6	30	CR	*	510	-0.126												
	6	33	CR	*	510	-0.168	*	3131	-0.120	*	778	-0.121						
	6	44	CR										*	907	-0.106			
	6	46	MC	*	510	-0.125												
	6	48	CR													*	337	-0.146
	6	56	CR	*	510	-0.102												
	6	60	CR	*	510	-0.203												
	7	8	MC													+	352	0.118
	7	35	MC	+	591	0.111	+	2998	0.144	+	780	0.107	+	657	0.118			
	7	57	CR	*	591	-0.128				*	780	-0.109				*	352	-0.222
	7	60	CR	*	591	-0.207				*	780	-0.103						
	8	27	MC	*	648	-0.124	*	2905	-0.113	*	787	-0.125	*	530	-0.101			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 244. 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			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	8	28	CR	*	648	-0.178					787	-0.134						
	8	29	MC	*	648	-0.104	*	2905	-0.111				*	530	-0.104			
	8	53	MC													+	320	0.118
	8	56	CR										*	530	-0.112			
	8	60	CR										+	530	0.162			
	9	6	CR										+	380	0.131			
	9	20	CR	*	807	-0.115				*	782	-0.104				*	327	-0.131
	9	28	MC													*	327	-0.131
	9	40	CR	*	807	-0.132				*	782	-0.173	*	380	-0.102			
	9	46	MC													*	327	-0.108
	10	25	MC										+	293	0.105	+	353	0.103
	10	30	MC	+	610	0.116										+	353	0.109
	10	37	MC													+	353	0.117
	10	40	CR	*	610	-0.112							+	293	0.107			
	10	45	CR	*	610	-0.101												
Reading	3	5	CR	*	361	-0.111												
	3	13	CR	*	361	-0.262	*	2158	-0.102	*	575	-0.125				*	332	-0.196
	3	37	CR							*	575	-0.102						
	4	17	CR	*	433	-0.173				*	629	-0.116						
	4	18	CR	*	433	-0.177												
	4	23	CR	*	433	-0.120												
	4	29	CR							*	629	-0.118						
	4	40	CR	*	433	-0.191										*	329	-0.100
	4	109	CR	*	433	-0.221												
	5	8	CR	*	482	-0.127												
	5	12	MC													*	357	-0.105
	5	14	CR	*	482	-0.138	*	3081	-0.105									
	5	26	CR													+	357	0.104
	5	28	CR	*	482	-0.172				*	762	-0.121				*	357	-0.182
	5	37	CR	*	482	-0.152				*	762	-0.116						
	5	105	CR	*	482	-0.107												

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

**Table 244. 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			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	6	8	MC	+	505	0.111				+	774	0.103						
	6	20	CR	*	505	-0.237				*	774	-0.220						
	6	21	CR	*	505	-0.103												
	6	29	CR	*	505	-0.223				*	774	-0.148				*	334	-0.146
	6	33	CR							*	774	-0.124						
	6	45	CR	*	505	-0.115												
	6	51	CR	*	505	-0.112												
	6	101	CR	*	505	-0.116				*	774	-0.106						
	6	111	CR	*	505	-0.221				*	774	-0.138						
	7	4	CR	*	594	-0.145				*	771	-0.117						
	7	14	CR	*	594	-0.133				*	771	-0.107						
	7	19	MC							+	771	0.110						
	7	24	CR	*	594	-0.180				*	771	-0.129				*	359	-0.111
	7	34	CR	*	594	-0.111										*	359	-0.266
	7	43	CR	*	594	-0.139												
	7	93	CR	*	594	-0.101												
	7	111	CR	*	594	-0.119												
	8	8	MC	+	637	0.118												
	8	28	CR	*	637	-0.206												
	8	30	CR	*	637	-0.144				*	791	-0.143	+	532	0.127	*	322	-0.141
	8	38	CR	*	637	-0.140												
	8	103	CR	*	637	-0.184				*	791	-0.101				*	322	-0.124
	8	111	CR	*	637	-0.128												
	9	5	CR	*	790	-0.156				*	779	-0.116						
	9	14	CR													*	338	-0.125
	9	15	CR	*	790	-0.169				*	779	-0.130	+	384	0.158	*	338	-0.127
	9	16	CR	*	790	-0.137				*	779	-0.104						
	9	28	CR	*	790	-0.213				*	779	-0.157				*	338	-0.121
	9	43	CR	*	790	-0.194				*	779	-0.165						
	9	105	CR	*	790	-0.192							+	384	0.146			
	9	106	CR	*	790	-0.129												
	9	112	CR	*	790	-0.115												
	10	10	CR				+	2349	0.131									

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 244. 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			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	10	15	CR	*	598	-0.153				*	655	-0.121						
	10	16	CR	*	598	-0.155				*	655	-0.137						
	10	33	MC										*	295	-0.105			
	10	37	CR	*	598	-0.105												
	10	42	MC										*	295	-0.105			
	10	50	CR	*	598	-0.130												
	10	101	CR	*	598	-0.103												
	10	116	CR	*	598	-0.161												
Science	5	15	MC	+	486	0.104												
	5	29	CR													*	355	-0.106
	5	31	MC	+	486	0.101										*	355	-0.103
	5	42	MC															
	5	48	CR	+	486	0.113												
	5	63	CR													+	355	0.142
	8	9	MC	+	645	0.123				+	786	0.141				*	313	-0.419
	8	22	CR	*	645	-0.532	*	2906	-0.233	*	786	-0.320				*	313	-0.102
	8	40	MC													*	313	-0.102
	8	42	CR	*	645	-0.232	*	2906	-0.105	*	786	-0.164				*	313	-0.131
	8	76	CR	*	645	-0.148												
	10	4	MC	+	607	0.104												
	10	22	CR	*	607	-0.513	*	2371	-0.217	*	660	-0.325				*	372	-0.198
	10	23	CR	*	607	-0.121	*	2371	-0.105									
	10	24	CR	*	607	-0.146				*	660	-0.102						
	10	31	CR							*	660	-0.110						
	10	40	CR	+	607	0.128	+	2371	0.119									
	10	74	CR							+	660	0.101	+	296	0.135			
	10	78	CR													*	372	-0.114
	10	82	CR	*	607	-0.113												
Writing	3	1E	CR				*	2195	-0.103									
	3	4	MC				+	2195	0.139	+	582	0.106						
	3	6	MC	+	364	0.107				+	582	0.102						
	3	14C	CR	*	364	-0.110												
	4	3A	CR	*	432	-0.174												

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.



Table 244. 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			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	4	3B	CR	*	432	-0.232				*	628	-0.115				*	330	-0.140
	4	51	CR	*	432	-0.187												
	4	53	MC	+	432	0.118				+	628	0.103						
	4	64	CR	*	432	-0.232				*	628	-0.108						
	4	87	MC													+	330	0.105
	4	91	MC				+	2916	0.117									
	4	93	CR	*	432	-0.212												
	5	3A	CR	*	487	-0.139	+	3086	0.109									
	5	3B	CR	*	487	-0.128				*	767	-0.134				*	358	-0.131
	5	51	MC													+	358	0.116
	5	53	MC													*	358	-0.138
	5	69	CR	*	487	-0.195												
	5	92	CR				+	3086	0.102									
	5	116	CR	*	487	-0.137										*	358	-0.143
	6	3A	CR	*	507	-0.184				*	776	-0.112						
	6	3B	CR	*	507	-0.197				*	776	-0.106				*	337	-0.109
	6	66	MC	+	507	0.102												
	6	79	CR	*	507	-0.175				*	776	-0.125				*	337	-0.152
	6	82	MC	+	507	0.108												
	6	100	CR	*	507	-0.165				*	776	-0.109						
	6	116	CR	*	507	-0.196				*	776	-0.151						
	7	2C	CR				*	2990	-0.116									
	7	3A	CR	*	589	-0.167							+	661	0.113			
	7	3B	CR	*	589	-0.140												
	7	23	CR	*	589	-0.170												
	7	60	CR	*	589	-0.293												
	7	92	CR	*	589	-0.218	+	2990	0.113				+	661	0.115			
	8	2A	CR				*	2896	-0.121									
	8	3A	CR	*	641	-0.107										*	325	-0.114
	8	3B	CR	*	641	-0.124										*	325	-0.129
	8	22	CR	*	641	-0.230				*	789	-0.105						
	8	50	MC	+	641	0.121												
	8	51	MC										*	531	-0.126			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

**Table 244. 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			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	8	63	CR	*	641	-0.167												
	8	82	MC															
	8	88	CR	*	641	-0.215	+	2896	0.112	*	789	-0.106	+	531	0.151	+	325	0.106
	9	3A	CR							*	777	-0.107				*	337	-0.117
	9	3B	CR							*	777	-0.105				*	337	-0.123
	9	55	MC										*	384	-0.159			
	9	56	MC										+	384	0.150			
	9	68	CR	*	786	-0.173				*	777	-0.110	+	384	0.162			
	9	92	MC										*	384	-0.152			
	9	96	CR	*	786	-0.222				*	777	-0.156	+	384	0.186			
	9	116	CR	*	786	-0.194				*	777	-0.104						
	10	2C	CR				*	2365	-0.165									
	10	2E	CR				*	2365	-0.135									
	10	3A	CR							*	660	-0.116						
	10	3B	CR	*	601	-0.110				*	660	-0.111						
	10	27	CR	*	601	-0.119												
	10	74	CR	*	601	-0.191	+	2365	0.109				+	297	0.176			
	10	82	MC							+	660	0.108						
	10	87	MC										*	297	-0.115			
	10	94	CR	*	601	-0.125	+	2365	0.142				+	297	0.163			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

**Table 245. 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			Cont. Enroll. in US					
				No			Yes			No			Yes		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	4	7	CR				*	6265	-0.162						
	4	23	CR				*	6265	-0.133						
	4	64	MC				*	6265	-0.119						
	4	69	CR				+	6265	0.213						
	5	69	CR				+	6274	0.131						
	6	22	MC				*	5487	-0.120						
	6	37	CR				*	5487	-0.111						
	6	51	CR				+	5487	0.142						
	7	57	CR				+	5251	0.131						
	8	2	CR				+	4693	0.128						
	8	27	MC				*	4693	-0.114						
	8	60	CR				+	4693	0.158						
Reading	3	2	MC				*	271	-0.104						
	4	17	CR				+	6225	0.109						
	4	23	CR				+	6225	0.144						
	4	40	CR				+	6225	0.106						
	4	109	CR				+	6225	0.116						
	5	28	CR				+	6270	0.127						
	5	101	MC				+	6270	0.106						
	6	20	CR				+	5484	0.119						
	6	29	CR				+	5484	0.168						
	6	56	MC				*	5484	-0.104						
	6	111	CR				+	5484	0.131						
	7	4	CR				+	5240	0.125						
	7	8	MC				*	5240	-0.145						
	7	14	CR				+	5240	0.102						
	7	19	MC				*	5240	-0.136						
	8	7	MC				*	4687	-0.128						
	8	8	MC				*	4687	-0.124						
	8	15	CR				+	4687	0.102						
	8	25	CR				+	4687	0.106						
	8	28	CR				+	4687	0.210						
	8	29	CR				+	4687	0.131						
	8	38	CR				+	4687	0.121						
	8	46	MC				*	4687	-0.103						
	8	98	MC				*	4687	-0.160						
	8	103	CR				+	4687	0.193						
	8	111	CR				+	4687	0.141						
	9	15	CR				+	4625	0.164						
	9	16	CR				+	4625	0.112						
	9	25	CR				*	4625	-0.134						
	9	28	CR				+	4625	0.117						
	9	43	CR				+	4625	0.120						
	10	7	CR				+	4023	0.164						
	10	10	CR				+	4023	0.130						
	10	15	CR				+	4023	0.101						
	10	23	MC				*	4023	-0.107						
	10	31	CR				+	4023	0.102						
	10	50	CR				+	4023	0.126						
	10	51	CR				+	4023	0.105						
	10	95	CR				+	4023	0.114						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 245. 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			Cont. Enroll. in US					
				No			Yes			No			Yes		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	10	112	MC				*	4023	-0.149						
	10	115	MC				*	4023	-0.128						
	10	116	CR				+	4023	0.102						
Science	8	22	CR				+	4689	0.330	*	11392	-0.106			
	10	22	CR	*	9340	-0.158	+	4023	0.453	*	12540	-0.163			
Writing	3	2	MC				*	251	-0.180						
	3	6	MC				*	251	-0.184						
	3	15	MC				*	251	-0.134						
	4	2C	CR				+	6217	0.129						
	4	51	CR				+	6217	0.226						
	4	53	MC				*	6217	-0.218						
	4	54	MC				*	6217	-0.139						
	4	55	MC				*	6217	-0.179						
	4	64	CR				+	6217	0.106						
	4	68	MC				*	6217	-0.177						
	4	93	CR				+	6217	0.149						
	5	69	CR				+	6277	0.125						
	5	92	CR				+	6277	0.125						
	5	116	CR				+	6277	0.113						
	6	79	CR				+	5482	0.108						
	6	82	MC				*	5482	-0.139						
	6	100	CR				+	5482	0.120						
	6	116	CR				+	5482	0.110						
	7	3A	CR				+	5245	0.149						
	7	3B	CR				+	5245	0.127						
	7	60	CR				+	5245	0.137						
	7	84	MC				*	5245	-0.175						
	7	85	MC				*	5245	-0.118						
	7	89	MC				*	5245	-0.208						
	7	92	CR				+	5245	0.170						
	8	22	CR				+	4690	0.144						
	8	50	MC				*	4690	-0.150						
	8	63	CR				+	4690	0.143						
	8	67	MC				*	4690	-0.127						
	8	73	MC				*	4690	-0.154						
	8	88	CR				+	4690	0.168						
	9	56	MC				+	4624	0.226						
	9	57	MC				*	4624	-0.118						
	9	68	CR				+	4624	0.162						
	9	96	CR				+	4624	0.137						
	9	116	CR				+	4624	0.152						
10	27	CR	*	9308	-0.114										
10	74	CR				+	4036	0.131							
10	82	MC				*	4036	-0.136							
10	90	MC				*	4036	-0.104							
10	94	CR				+	4036	0.180							

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 246. 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	18	MC	*	1698	-0.111												
	3	20	CR	+	1698	0.109												
	3	27	MC										*	6477	-0.113	+	3516	0.115
	3	33	MC										*			*	3516	-0.125
	4	7	CR	*	1192	-0.243	*	9704	-0.140				*	5665	-0.183	*	2163	-0.220
	4	12	MC	*	1192	-0.111							*			*	2163	-0.146
	4	14	CR	+	1192	0.104												
	4	23	CR	*	1192	-0.242										*	2163	-0.249
	4	24	MC	*	1192	-0.113							*	5665	-0.107			
	4	43	MC	*	1192	-0.124							*			*	2163	-0.107
	4	64	MC	*	1192	-0.151	*	9704	-0.109				*	5665	-0.129	*	2163	-0.156
	4	69	CR	+	1192	0.213	+	9704	0.162	+	3042	0.115	+	5665	0.194	+	2163	0.175
	5	1	MC													+	1420	0.102
	5	9	CR	*	958	-0.118							*	5288	-0.100	*	1420	-0.106
	5	22	MC													*	1420	-0.119
	5	23	CR	*	958	-0.121												
	5	34	CR	+	958	0.125												
	5	38	MC													+	1420	0.137
	5	43	MC													+	1420	0.133
	5	44	CR	+	958	0.116												
	5	52	CR	+	958	0.123										+	1420	0.130
	5	54	CR													*	1420	-0.204
	5	64	MC													+	1420	0.111
	5	69	CR										+	5288	0.131			
	6	5	CR										*			*	1102	-0.135
	6	6	MC										*			*	1102	-0.132
	6	9	MC													+	1102	0.110
	6	12	MC													+	1102	0.111
	6	22	MC				*	9350	-0.109				*	4286	-0.121	*	1102	-0.164
	6	23	CR										*			*	1102	-0.123
	6	37	CR										*	4286	-0.173	*	1102	-0.112
	6	44	CR										*			*	1102	-0.145
	6	45	CR													+	1102	0.175
	6	47	MC													+	1102	0.115
	6	48	CR	*	418	-0.102										*	1102	-0.247

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 246. 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	6	51	CR	+	418	0.147	+	9350	0.122				+	4286	0.143	+	1102	0.171
	7	3	CR													+	979	0.130
	7	6	MC													*	979	-0.114
	7	14	MC													+	979	0.106
	7	15	CR	+	277	0.146												
	7	34	CR													+	979	0.157
	7	35	MC													+	979	0.156
	7	36	MC													*	979	-0.110
	7	38	MC							*	4526	-0.110						
	7	39	MC													*	979	-0.109
	7	43	CR													*	979	-0.190
	7	49	CR	*	277	-0.163												
	7	57	CR										+	3642	0.142			
	7	60	CR	+	277	0.256				+	4526	0.133				*	979	-0.114
	8	2	CR				+	8248	0.113	+	4643	0.126	+	3055	0.118			
	8	5	MC	*	230	-0.113												
	8	15	CR	+	230	0.129												
	8	17	MC													*	774	-0.115
	8	19	MC										*	3055	-0.112	*	774	-0.138
	8	20	CR													+	774	0.108
	8	26	MC													*	774	-0.115
	8	27	MC	*	230	-0.114	*	8248	-0.108				*	3055	-0.124	*	774	-0.101
	8	28	CR													*	774	-0.118
	8	56	CR										*	3055	-0.136	*	774	-0.149
	8	60	CR				+	8248	0.144				+	3055	0.213	+	774	0.344
	9	2	MC													+	1010	0.104
	9	20	CR													*	1010	-0.178
	9	28	MC													*	1010	-0.154
	9	59	MC													*	1010	-0.113
	10	5	CR													*	848	-0.140
	10	6	MC													+	848	0.114
	10	12	CR	+	244	0.107										+	848	0.121
	10	25	MC													+	848	0.121
	10	31	CR													*	848	-0.225
	10	34	CR													*	848	-0.168

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 246. 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	10	35	MC	*	244	-0.101												
	10	37	MC															
	10	45	CR							+	4296	0.105				+	848	0.115
Reading	3	13	CR	+	592	0.137							+	5992	0.115			
	3	19	CR	+	592	0.127							+	5992	0.109			
	3	22	CR	+	592	0.113				+	1703	0.126	+					
	3	28	CR							+	1703	0.111						
	3	34	MC	*	592	-0.114												
	3	37	CR	+	592	0.147	+	9766	0.102				+	5992	0.129			
	4	12	MC										*	5630	-0.105			
	4	17	CR	+	1125	0.111				+	3043	0.121				+	2002	0.180
	4	22	MC	+	1125	0.104												
	4	23	CR	+	1125	0.170	+	9579	0.127	+	3043	0.150	+	5630	0.142			
	4	29	CR										+	5630	0.115			
	4	40	CR	+	1125	0.123							+	5630	0.110			
	4	99	MC	*	1125	-0.127										*	2002	-0.111
	4	109	CR	+	1125	0.143	+	9579	0.103	+	3043	0.131	+	5630	0.101			
	5	8	CR													+	1393	0.109
	5	14	CR													*	1393	-0.132
	5	18	CR	*	950	-0.115												
	5	21	MC							*	3730	-0.139						
	5	28	CR				+	9495	0.105	+	3730	0.150	+	5286	0.121			
	5	41	MC							*	3730	-0.111						
	5	47	MC													+	1393	0.118
	5	97	MC	+	950	0.110												
	5	98	CR													+	1393	0.117
	5	99	CR													+	1393	0.123
	5	101	MC	+	950	0.137				+	3730	0.116						
	6	20	CR	+	413	0.218	+	9333	0.108				+	4284	0.139			
	6	23	MC	*	413	-0.108				*	4349	-0.105						
	6	29	CR	+	413	0.171	+	9333	0.156	+	4349	0.189	+	4284	0.162			
	6	30	MC	*	413	-0.103												
	6	33	CR							+	4349	0.104						
	6	35	MC	*	413	-0.132												
	6	37	CR	+	413	0.116												

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 246. 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	56	MC	*	413	-0.126				*	4349	-0.107						
	6	104	MC													*	1085	-0.137
	6	111	CR	+	413	0.127	+	9333	0.134	+	4349	0.200						
	7	4	CR	+	280	0.258	+	8863	0.119				+	3634	0.166	+	964	0.159
	7	7	MC	*	280	-0.119												
	7	8	MC	*	280	-0.139	*	8863	-0.134	*	4530	-0.159	*	3634	-0.126			
	7	14	CR							+	4530	0.128	+	3634	0.104	*	964	-0.166
	7	19	MC	*	280	-0.138	*	8863	-0.120	*	4530	-0.123	*	3634	-0.135			
	7	24	CR							+	4530	0.115				*	964	-0.145
	7	28	MC													*	964	-0.147
	7	34	CR													*	964	-0.282
	7	37	MC										*	3634	-0.102			
	7	41	CR							+	4530	0.118						
	7	44	CR	+	280	0.168							+	3634	0.110	+	964	0.163
	7	46	MC													+	964	0.102
	7	95	CR	*	280	-0.102										*	964	-0.159
	7	110	CR													+	964	0.165
	7	111	CR							+	4530	0.103						
	8	6	MC													*	755	-0.152
	8	7	MC	*	229	-0.112	*	8225	-0.117	*	4636	-0.114	*	3059	-0.129			
	8	8	MC	*	229	-0.113	*	8225	-0.106				*	3059	-0.153			
	8	11	MC													*	755	-0.124
	8	12	CR										+	3059	0.137	+	755	0.192
	8	15	CR										+	3059	0.107			
	8	25	CR										+	3059	0.106			
	8	27	MC													*	755	-0.101
	8	28	CR	+	229	0.214	+	8225	0.202	+	4636	0.179	+	3059	0.243	+	755	0.190
	8	29	CR	+	229	0.163	+	8225	0.110	+	4636	0.137						
	8	30	CR							+	4636	0.130				*	755	-0.292
	8	38	CR				+	8225	0.120				+	3059	0.160	+	755	0.241
	8	39	CR	+	229	0.101												
	8	41	MC													+	755	0.101
	8	96	CR										*	3059	-0.150	*	755	-0.249
	8	98	MC	*	229	-0.105	*	8225	-0.136	*	4636	-0.150	*	3059	-0.136			
	8	102	MC										*	3059	-0.102	*	755	-0.128

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring



Table 246. 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	103	CR	+	229	0.220	+	8225	0.170	+	4636	0.123	+	3059	0.209	+	755	0.317
	8	111	CR				+	8225	0.102				+	3059	0.176			
	8	113	MC							*			*	3059	-0.105			
	8	114	MC								4636	-0.101						
	9	5	CR							+	4998	0.184				*	989	-0.357
	9	7	MC													*	989	-0.101
	9	13	CR							+	4998	0.128				*	989	-0.173
	9	14	CR													*	989	-0.135
	9	15	CR				+	8331	0.166	+	4998	0.171	+	2495	0.222			
	9	16	CR				+	8331	0.113	+	4998	0.113	+	2495	0.125			
	9	25	CR	*	192	-0.216	*	8331	-0.125	*	4998	-0.178						
	9	28	CR	+	192	0.217				+	4998	0.143						
	9	42	MC	+	192	0.118												
	9	43	CR				+	8331	0.133	+	4998	0.120	+	2495	0.100	+	989	0.281
	9	45	CR	+	192	0.148	+	8331	0.114	+	4998	0.122				+	989	0.186
	9	100	CR										+	2495	0.101	+	989	0.131
	9	101	MC													*	989	-0.118
	9	105	CR				+	8331	0.125				+	2495	0.220	+	989	0.275
	9	106	CR				+	8331	0.103							+	989	0.215
	10	5	MC													*	836	-0.129
	10	6	MC	+	268	0.120										+	836	0.125
	10	7	CR	+	268	0.237	+	7243	0.128	+	4298	0.160	+	2273	0.129			
	10	10	CR				+	7243	0.108	+	4298	0.101	+	2273	0.179			
	10	15	CR							+	4298	0.112						
	10	17	MC													*	836	-0.106
	10	22	MC										*	2273	-0.105			
	10	23	MC							*	4298	-0.108						
	10	25	MC													*	836	-0.120
	10	32	CR										+	2273	0.112	+	836	0.173
	10	45	CR							+	4298	0.102						
	10	49	CR							+	4298	0.103						
	10	50	CR				+	7243	0.120				+	2273	0.186	+	836	0.284
	10	51	CR							+	4298	0.141						
	10	95	CR	+	268	0.186	+	7243	0.124	+	4298	0.116	+	2273	0.128	+	836	0.169
	10	107	MC													*	836	-0.108

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 246. 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	110	MC															
	10	112	MC	*	268	-0.186	*	7243	-0.141	*	4298	-0.172	*	2273	-0.128	+	836	0.104
	10	115	MC	*	268	-0.159	*	7243	-0.118	*	4298	-0.126	*	2273	-0.139			
	10	116	CR	+	268	0.202				+	4298	0.143						
Science	5	29	CR													*	1416	-0.105
	5	48	CR	*	952	-0.202							*	5286	-0.105	*	1416	-0.249
	5	49	MC													+	1416	0.101
	5	61	CR													*	1416	-0.141
	5	64	MC													+	1416	0.109
	5	68	MC													+	1416	0.112
	8	2	CR													+	769	0.114
	8	9	MC	*	228	-0.150												
	8	19	CR	*	228	-0.199												
	8	22	CR	+	228	0.270	+	8234	0.302	+	4644	0.251	+	3045	0.390	+	769	0.239
	8	31	CR	*	228	-0.101												
	8	36	MC	*	228	-0.132												
	8	38	MC	+	228	0.124												
	8	49	CR													*	769	-0.123
	8	53	CR	+	228	0.145												
	8	75	MC													*	769	-0.135
	10	22	CR	+	241	0.287	+	7231	0.352	+	4287	0.370	+	2284	0.361	+	852	0.257
	10	30	MC													+	852	0.113
	10	31	CR													*	852	-0.145
	10	34	CR													*	852	-0.101
	10	38	MC													*	852	-0.101
	10	47	CR													*	852	-0.138
	10	60	CR	*	241	-0.133												
	10	65	MC													+	852	0.112
	10	78	CR													*	852	-0.129
Writing	3	2	MC	*	602	-0.180	*	9775	-0.168				*	6000	-0.186	*	2654	-0.205
	3	6	MC	*	602	-0.288	*	9775	-0.228				*	6000	-0.261	*	2654	-0.273
	3	9	MC	*	602	-0.195	*	9775	-0.109				*	6000	-0.108	*	2654	-0.173
	3	15	MC	*	602	-0.145	*	9775	-0.143	*	1691	-0.102	*	6000	-0.169	*	2654	-0.113
	4	2C	CR	+	1123	0.216							+	5627	0.119	+	1994	0.132
	4	2D	CR	*	1123	-0.169												

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

Table 246. 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	3A	CR	+	1123	0.105										+	1994	0.118
	4	51	CR	+	1123	0.327	+	9564	0.170				+	5627	0.208	+	1994	0.264
	4	53	MC	*	1123	-0.339	*	9564	-0.178				*	5627	-0.241	*	1994	-0.309
	4	54	MC	*	1123	-0.221	*	9564	-0.102				*	5627	-0.129	*	1994	-0.200
	4	55	MC	*	1123	-0.234	*	9564	-0.149				*	5627	-0.187	*	1994	-0.238
	4	64	CR	+	1123	0.155							+	5627	0.127			
	4	68	MC	*	1123	-0.205	*	9564	-0.151				*	5627	-0.196	*	1994	-0.156
	4	78	MC													+	1994	0.107
	4	79	MC	+	1123	0.106												
	4	88	MC							+	3037	0.105						
	4	93	CR	+	1123	0.246	+	9564	0.123				+	5627	0.110			
	5	3A	CR										+	5627	0.155	+	1994	0.152
	5	53	MC										+	5293	0.114	*	1399	-0.118
	5	58	MC										*	5293	-0.109			
	5	69	CR	+	953	0.149	+	9505	0.105				+	5293	0.143			
	5	79	MC													+	1399	0.108
	5	84	MC										*	5293	-0.100			
	5	92	CR	+	953	0.195							+	5293	0.126	+	1399	0.172
	5	116	CR	+	953	0.157							+	5293	0.121			
	6	59	MC													*	1093	-0.123
	6	79	CR	+	415	0.127							+	4278	0.145			
	6	81	MC													*	1093	-0.144
	6	82	MC	*	415	-0.152	*	9293	-0.114				*	4278	-0.163			
	6	100	CR	+	415	0.156	+	9293	0.112				+	4278	0.136	+	1093	0.221
	6	116	CR	+	415	0.182							+	4278	0.135			
	7	2B	CR										*	3638	-0.120			
	7	3A	CR				+	8869	0.124				+	3638	0.148	+	968	0.175
	7	3B	CR										+	3638	0.131			
	7	23	CR	+	282	0.135							+	3638	0.117			
	7	53	MC													+	968	0.110
	7	54	MC													*	968	-0.102
	7	60	CR	+	282	0.128	+	8869	0.136				+	3638	0.196	+	968	0.116
	7	64	MC	+	282	0.114										+	968	0.104
	7	67	MC													+	968	0.105
	7	84	MC	*	282	-0.204	*	8869	-0.156	*	4530	-0.146	*	3638	-0.183	*	968	-0.122

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

Table 246. 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	7	85	MC	*	282	-0.113							*	3638	-0.161			
	7	89	MC	*	282	-0.201	*	8869	-0.190	*	4530	-0.162	*	3638	-0.241	*	968	-0.135
	7	92	CR	+	282	0.124	+	8869	0.142	+	4530	0.102	+	3638	0.193	+	968	0.139
	8	2F	CR													*	756	-0.143
	8	3A	CR										+	3058	0.105	+	756	0.137
	8	22	CR	+	228	0.187	+	8229	0.132	+	4639	0.112	+	3058	0.175	+	756	0.104
	8	49	MC										*			*	756	-0.194
	8	50	MC	*	228	-0.132	*	8229	-0.137	*	4639	-0.108	*	3058	-0.188	*	756	-0.111
	8	56	MC										*			*	756	-0.111
	8	63	CR	+	228	0.128	+	8229	0.120	+	4639	0.113	+	3058	0.159			
	8	65	MC	*	228	-0.107										*	756	-0.175
	8	67	MC				*	8229	-0.106				*	3058	-0.127			
	8	73	MC	*	228	-0.123	*	8229	-0.134	*	4639	-0.109	*	3058	-0.183			
	8	88	CR	+	228	0.148	+	8229	0.142	+	4639	0.102	+	3058	0.207	+	756	0.137
	9	2A	CR	+	192	0.112										+	998	0.142
	9	3A	CR	+	192	0.193												
	9	3B	CR	+	192	0.150												
	9	56	MC	+	192	0.183	+	8342	0.192	+	5007	0.211	+	2488	0.214			
	9	57	MC	*	192	-0.127	*	8342	-0.115				*	2488	-0.135	*	998	-0.219
	9	68	CR				+	8342	0.130	+	5007	0.133	+	2488	0.189			
	9	78	MC	+	192	0.119				*	5007	-0.110						
	9	93	MC															
	9	96	CR				+	8342	0.114				+	2488	0.162			
	9	116	CR				+	8342	0.131	+	5007	0.129	+	2488	0.187			
	10	2C	CR	+	267	0.209	+	7265	0.103				+	2286	0.126	+	841	0.216
	10	2E	CR										*	2286	-0.167	*	841	-0.165
	10	2F	CR										*	2286	-0.109	*	841	-0.147
	10	3A	CR										+	2286	0.102			
	10	27	CR													*	841	-0.109
	10	65	MC													*	841	-0.122
	10	68	MC	*	267	-0.101												
	10	74	CR				+	7265	0.114				+	2286	0.183			
	10	82	MC				*	7265	-0.117				*	2286	-0.191	*	841	-0.214
	10	88	MC													*	841	-0.101
	10	89	MC													+	841	0.119

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 246. 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	90	MC										*	2286	-0.123			
	10	94	CR	+	267	0.178	+	7265	0.146	+	4302	0.131	+	2286	0.188	+	841	0.150

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 247. Items Flagged for DIF by Education Plan Focal Group**

Content Area	Grade	Item #	Item Type	Education Plan Focal Group <sup>1</sup>											
				504			GATE			IEP			Title 1		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	4	28	CR							+	5995	0.107			
	5	44	CR							*	5987	-0.105			
	5	46	CR							+	5987	0.107			
	6	33	CR	*	526	-0.114				*	5659	-0.117			
	7	3	CR	*	580	-0.100									
	7	35	MC							+	5374	0.128			
	7	40	CR	+	580	0.103									
	8	27	MC							*	5184	-0.113	*	6638	-0.110
	8	28	CR							*	5184	-0.103			
	8	29	MC							*	5184	-0.102			
Mathematics	8	60	CR										+	6638	0.107
	9	40	CR	*	711	-0.118				*	5014	-0.107			
	9	60	CR				*	2558	-0.123				*	2740	-0.112
	10	20	CR										*	2218	-0.130
Reading	3	37	CR	*	231	-0.104									
	4	17	CR	*	325	-0.125									
	4	23	CR	*	325	-0.154									
	4	31	MC	+	325	0.102									
	4	109	CR	*	325	-0.215									
	5	14	CR				*	2691	-0.167						
	5	37	CR	*	437	-0.113									
	6	33	CR				*	2646	-0.157						
	7	4	CR	*	580	-0.132									
	7	14	CR	*	580	-0.129									
	7	24	CR	*	580	-0.143									
	7	111	CR	*	580	-0.112									
	8	28	CR	*	718	-0.117									
	8	29	CR	*	718	-0.111									
	8	30	CR	*	718	-0.149									
	8	103	CR										+	6647	0.117
	8	111	CR	*	718	-0.158									
	9	16	CR	*	706	-0.127							*	2735	-0.167
	9	25	CR												
	9	28	CR							*	5009	-0.104			
	9	43	CR	*	706	-0.103									
	9	105	CR	*	706	-0.125									
	9	106	CR	*	706	-0.107									
	10	7	CR	*	816	-0.105							+	2204	0.180
	10	10	CR										+	2204	0.138
	10	37	CR				*	2328	-0.123				*	2204	-0.113
	10	51	CR	*	816	-0.101									
Science	8	22	CR	*	722	-0.221				*	5175	-0.273	+	6159	0.146
	8	42	CR							*	5175	-0.127			
	10	17	CR										+	2211	0.104
	10	22	CR	*	819	-0.220	+	2333	0.110	*	4281	-0.263	+	2211	0.357
	10	40	CR							+	4281	0.110			
Writing	4	64	CR	*	326	-0.123	*	2101	-0.123						
	4	93	CR	*	326	-0.105									
	5	3A	CR	*	440	-0.189									
	5	3B	CR	*	440	-0.122									
	5	92	CR	*	440	-0.109									
	5	116	CR	*	440	-0.143									
	6	3B	CR				*	2619	-0.106						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 247. Items Flagged for DIF by Education Plan Focal Group (Concluded)**

Content Area	Grade	Item #	Item Type	Education Plan Focal Group <sup>1</sup>											
				504			GATE			IEP			Title 1		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	6	100	CR	*	526	-0.111									
	6	116	CR	*	526	-0.105									
	7	3A	CR	*	579	-0.124							+	7111	0.111
	7	60	CR	*	579	-0.104	*	2754	-0.120				+	7111	0.115
	7	92	CR	*	579	-0.147									
	8	22	CR	*	719	-0.119									
	8	88	CR	*	719	-0.203									
	9	3A	CR										+	2736	0.192
	9	3B	CR										+	2736	0.183
	9	3C	CR										+	2736	0.117
	9	96	CR	*	707	-0.118									
	10	2C	CR							*	4277	-0.119			
	10	3A	CR										+	2207	0.113
	10	53	MC										*	2207	-0.101
	10	74	CR				*	2325	-0.119						
	10	94	CR										+	2207	0.136

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, and Free Lunch Eligible Focal Groups**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>											
				Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	3	5	CR	*	868	-0.118									
	3	27	MC							*	383	-0.114			
	3	33	MC				*	757	-0.104	*	383	-0.119			
	4	7	CR				*	589	-0.198	*	343	-0.135			
	4	12	MC				*	589	-0.121	*	343	-0.123			
	4	14	CR							+	343	0.119			
	4	23	CR				*	589	-0.115						
	4	36	CR	*	822	-0.102									
	4	41	MC							+	343	0.108			
	4	43	MC				*	589	-0.108						
	4	64	MC				*	589	-0.133						
	4	67	MC				+	589	0.106						
	4	69	CR				+	589	0.140	+	343	0.215			
	5	9	CR				*	526	-0.139						
	5	15	CR				*	526	-0.112						
	5	28	MC				+	526	0.102						
	5	43	MC				+	526	0.128	+	347	0.108			
	5	52	CR				+	526	0.108						
	5	54	CR				*	526	-0.148	*	347	-0.129			
	5	64	MC				+	526	0.133						
	5	69	CR							+	347	0.205			
	6	5	CR				*	514	-0.135						
	6	9	MC				+	514	0.101						
	6	22	MC				*	514	-0.139	*	331	-0.145			
	6	37	CR				*	514	-0.225						
	6	44	CR				*	514	-0.138						
	6	45	CR				+	514	0.124						
	6	46	MC				+	514	0.115						
	6	47	MC				+	514	0.162						
	6	48	CR				*	514	-0.252						
	6	51	CR				+	514	0.182	+	331	0.135			
	7	3	CR				+	515	0.164						
	7	14	MC				+	515	0.104						
	7	34	CR				+	515	0.192						
	7	35	MC				+	515	0.109						
	7	36	MC				*	515	-0.154						
	7	43	CR				*	515	-0.225						
	7	49	CR				*	515	-0.101						
	8	6	CR				*	506	-0.133						
	8	17	MC				*	506	-0.115						
	8	19	MC				*	506	-0.114						
	8	20	CR				+	506	0.103						
	8	26	MC				*	506	-0.154						
	8	27	MC	*	622	-0.118	*	506	-0.135	*	316	-0.116	*	15645	-0.113
	8	28	CR												
	8	29	MC	*	622	-0.101									
	8	35	MC				*	506	-0.100						
	8	40	CR				*	506	-0.119						
	8	56	CR				*	506	-0.158	*	316	-0.118			
	8	60	CR				+	506	0.353						
	9	4	CR				*	596	-0.125						
	9	6	CR							+	279	0.104			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring



**Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, and Free Lunch Eligible Focal Groups (Continued)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>											
				Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	9	20	CR				*	596	-0.202						
	9	57	MC				*	596	-0.109						
	9	59	MC				*	596	-0.101						
	10	5	CR				*	549	-0.127						
	10	6	MC				+	549	0.108						
	10	25	MC				+	549	0.107						
	10	27	CR				*	549	-0.115						
	10	31	CR				*	549	-0.193						
	10	34	CR				*	549	-0.149	*	248	-0.169			
	10	40	CR				*	549	-0.142						
Reading	3	34	MC				*	672	-0.115	*	365	-0.119			
	4	12	MC				*	530	-0.101	*	333	-0.128			
	4	17	CR				+	530	0.130						
	4	18	CR				+	530	0.100	+	333	0.170			
	4	23	CR				+	530	0.119	+	333	0.154			
	4	29	CR				+	530	0.112						
	4	40	CR				+	530	0.107	+	333	0.158			
	4	99	MC				*	530	-0.121						
	5	8	CR				+	512	0.113						
	5	14	CR							+	343	0.177			
	5	27	MC							*	343	-0.101			
	5	34	MC							*	343	-0.113			
	5	97	MC							+	343	0.106			
	5	98	CR				+	512	0.146	+	343	0.106			
	5	99	CR				+	512	0.165						
	5	107	MC				*	512	-0.143						
	6	8	MC							*	326	-0.102			
	6	20	CR				+	504	0.158						
	6	23	MC				*	504	-0.102						
	6	29	CR				+	504	0.178						
	6	111	CR				+	504	0.137						
	7	4	CR				+	514	0.207						
	7	17	MC				*	514	-0.133						
	7	19	MC							*	285	-0.154			
	7	27	MC							*	285	-0.127			
	7	28	MC				*	514	-0.168						
	7	34	CR				*	514	-0.200						
	7	37	MC				*	514	-0.148						
	7	44	CR				+	514	0.195						
	7	48	MC				+	514	0.107						
	7	94	CR							+	285	0.109			
	7	95	CR				*	514	-0.145						
	7	110	CR				+	514	0.209						
	7	111	CR				+	514	0.124						
	8	7	MC				*	502	-0.144	*	317	-0.101			
	8	8	MC				*	502	-0.101	*	317	-0.122			
	8	12	CR				+	502	0.210						
	8	15	CR				+	502	0.117						
	8	23	MC				*	502	-0.104						
	8	25	CR				+	502	0.129	+	317	0.127			
	8	27	MC				*	502	-0.103						
	8	28	CR				+	502	0.318	+	317	0.202			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, and Free Lunch Eligible Focal Groups (Continued)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>											
				Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	8	29	CR				+	502	0.137						
	8	30	CR				*	502	-0.194						
	8	31	MC				*	502	-0.100						
	8	38	CR				+	502	0.289	+	317	0.130			
	8	39	CR				+	502	0.106						
	8	41	MC				+	502	0.112						
	8	96	CR				*	502	-0.143						
	8	102	MC				*	502	-0.110						
	8	103	CR				+	502	0.297	+	317	0.136			
	8	113	MC				*	502	-0.117	*	317	-0.113			
	9	5	CR				*	576	-0.244						
	9	6	MC				*	576	-0.103						
	9	7	MC				*	576	-0.134						
	9	13	CR				*	576	-0.133						
	9	14	CR				*	576	-0.130						
	9	15	CR							+	277	0.136			
	9	16	CR				+	576	0.162	+	277	0.207			
	9	25	CR				*	576	-0.128						
	9	43	CR				+	576	0.264	+	277	0.126			
	9	45	CR				+	576	0.266						
	9	100	CR				+	576	0.147	+	277	0.112			
	9	102	MC				+	576	0.117						
	9	105	CR				+	576	0.295	+	277	0.122			
	9	106	CR				+	576	0.167						
	10	5	MC				*	540	-0.133						
	10	32	CR				+	540	0.116	+	242	0.221			
	10	37	CR				*	540	-0.131						
	10	45	CR				+	540	0.158						
	10	50	CR				+	540	0.308						
	10	95	CR				+	540	0.175	+	242	0.102			
	10	112	MC				*	540	-0.106	*	242	-0.143			
	10	116	CR				*	540	-0.114						
Science	5	48	CR				*	521	-0.247	*	347	-0.118			
	5	49	MC				+	521	0.118						
	5	55	MC				*	521	-0.101						
	5	61	CR				*	521	-0.179						
	5	65	MC				+	521	0.122						
	8	2	CR				+	503	0.153						
	8	7	MC				*	503	-0.113						
	8	19	CR				*	503	-0.105						
	8	22	CR				+	503	0.469						
	8	45	MC				*	503	-0.108						
	8	53	CR				+	503	0.103						
	10	16	MC							*	245	-0.111			
	10	22	CR				+	549	0.183						
	10	30	MC				+	549	0.115						
	10	31	CR				*	549	-0.105						
	10	38	MC				*	549	-0.102						
	10	40	CR				*	549	-0.140						
	10	47	CR				*	549	-0.128						
	10	60	CR							*	245	-0.109			
	10	70	MC				+	549	0.108						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, and Free Lunch Eligible Focal Groups (Continued)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>											
				Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Science	10	78	CR				*	549	-0.171						
Writing	3	2	MC				*	675	-0.178	*		359	-0.250		
	3	6	MC				*	675	-0.202	*		359	-0.229		
	3	9	MC				*	675	-0.131	*		359	-0.160		
	3	15	MC				*	675	-0.114	*		359	-0.137		
	4	2C	CR				+	530	0.157	+		331	0.105		
	4	3A	CR				+	530	0.122						
	4	3B	CR				+	530	0.104						
	4	51	CR				+	530	0.120	+		331	0.218		
	4	53	MC				*	530	-0.245	*		331	-0.249		
	4	54	MC				*	530	-0.153	*		331	-0.155		
	4	55	MC				*	530	-0.190	*		331	-0.189		
	4	64	CR							+		331	0.117		
	4	66	MC				*	530	-0.106						
	4	68	MC				*	530	-0.187	*		331	-0.196		
	4	88	MC				+	530	0.107						
	4	93	CR							+		331	0.179		
	5	69	CR							+		344	0.110		
	5	81	MC				+	514	0.116						
	5	84	MC							*		344	-0.100		
	5	92	CR							+		344	0.138		
	5	116	CR							+		344	0.160		
	6	59	MC				*	506	-0.149						
	6	63	MC				*	506	-0.101						
	6	79	CR							+		328	0.155		
	6	81	MC				*	506	-0.111						
	6	82	MC				*	506	-0.115	*		328	-0.120		
	6	90	MC							*		328	-0.104		
	6	91	MC				+	506	0.141						
	6	100	CR				+	506	0.172	+		328	0.119		
	6	116	CR							+		328	0.149		
	7	2B	CR							*		284	-0.108		
	7	3A	CR				+	513	0.118						
	7	23	CR							+		284	0.102		
	7	54	MC				*	513	-0.133						
	7	60	CR				+	513	0.137						
	7	64	MC				+	513	0.101	+		284	0.152		
	7	67	MC				+	513	0.106						
	7	76	MC				+	513	0.108						
	7	84	MC				*	513	-0.166	*		284	-0.145		
	7	85	MC				*	513	-0.119						
7	88	MC				+	513	0.108							
7	89	MC				*	513	-0.177	*		284	-0.215			
7	92	CR				+	513	0.109	+		284	0.126			
8	22	CR							+		318	0.136			
8	48	MC				+	502	0.107							
8	49	MC				*	502	-0.144							
8	50	MC				*	502	-0.175	*		318	-0.126			
8	63	CR							+		318	0.126			
8	65	MC				*	502	-0.166							
8	67	MC				*	502	-0.114							
8	73	MC				*	502	-0.166	*		318	-0.150			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, and Free Lunch Eligible Focal Groups (Concluded)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>											
				Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	8	83	MC				+	502	0.110						
	9	2A	CR				+	585	0.214						
	9	3A	CR							+	279	0.123			
	9	56	MC							+	279	0.188			
	9	57	MC				*	585	-0.202	*	279	-0.147			
	9	59	MC							*	279	-0.122			
	9	68	CR							+	279	0.152			
	9	116	CR							+	279	0.128			
	10	2C	CR				+	545	0.256	+	242	0.221			
	10	2E	CR				*	545	-0.173	*	242	-0.117			
	10	2F	CR				*	545	-0.110						
	10	27	CR				*	545	-0.258	*	242	-0.149			
	10	53	MC				*	545	-0.101						
	10	82	MC				*	545	-0.195	*	242	-0.117			
	10	87	MC							+	242	0.117			
	10	90	MC							*	242	-0.103			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 249. Intercorrelation Among Content Areas  
(Scale Scores)**

<b>Grade</b>	<b>Content Area</b>	<b>Reading</b>	<b>Writing</b>	<b>Mathematics</b>	<b>Science</b>
3	Reading	1.000	0.776	0.705	
	Writing	0.776	1.000	0.740	
	Mathematics	0.705	0.740	1.000	
4	Reading	1.000	0.815	0.762	
	Writing	0.815	1.000	0.770	
	Mathematics	0.762	0.770	1.000	
5	Reading	1.000	0.822	0.782	0.825
	Writing	0.822	1.000	0.785	0.765
	Mathematics	0.782	0.785	1.000	0.818
	Science	0.825	0.765	0.818	1.000
6	Reading	1.000	0.817	0.767	
	Writing	0.817	1.000	0.771	
	Mathematics	0.767	0.771	1.000	
7	Reading	1.000	0.835	0.777	
	Writing	0.835	1.000	0.772	
	Mathematics	0.777	0.772	1.000	
8	Reading	1.000	0.841	0.789	0.839
	Writing	0.841	1.000	0.755	0.764
	Mathematics	0.789	0.755	1.000	0.842
	Science	0.839	0.764	0.842	1.000
9	Reading	1.000	0.850	0.782	
	Writing	0.850	1.000	0.773	
	Mathematics	0.782	0.773	1.000	
10	Reading	1.000	0.850	0.766	0.818
	Writing	0.850	1.000	0.767	0.774
	Mathematics	0.766	0.767	1.000	0.844
	Science	0.818	0.774	0.844	1.000

**Table 250. Intercorrelation Among Content Areas  
(Percentile Ranks)**

Grade	Content Area	Reading	Writing	Mathematics	Science
3	Reading	1.000	0.803	0.740	
	Writing	0.803	1.000	0.762	
	Mathematics	0.740	0.762	1.000	
4	Reading	1.000	0.844	0.784	
	Writing	0.844	1.000	0.778	
	Mathematics	0.784	0.778	1.000	
5	Reading	1.000	0.850	0.800	0.862
	Writing	0.850	1.000	0.789	0.772
	Mathematics	0.800	0.789	1.000	0.816
	Science	0.862	0.772	0.816	1.000
6	Reading	1.000	0.843	0.782	
	Writing	0.843	1.000	0.768	
	Mathematics	0.782	0.768	1.000	
7	Reading	1.000	0.860	0.798	
	Writing	0.860	1.000	0.783	
	Mathematics	0.798	0.783	1.000	
8	Reading	1.000	0.859	0.794	0.845
	Writing	0.859	1.000	0.763	0.768
	Mathematics	0.794	0.763	1.000	0.845
	Science	0.845	0.768	0.845	1.000
9	Reading	1.000	0.887	0.810	
	Writing	0.887	1.000	0.782	
	Mathematics	0.810	0.782	1.000	
10	Reading	1.000	0.879	0.792	0.839
	Writing	0.879	1.000	0.770	0.774
	Mathematics	0.792	0.770	1.000	0.854
	Science	0.839	0.774	0.854	1.000

**Table 251. Intercorrelation 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	-0.055	0.007	-0.034	0.070	-0.127	-0.283
Mathematics	4	English	-0.096	-0.003	-0.042	0.075	-0.131	-0.282
Mathematics	5	English	-0.116	0.001	-0.038	0.086	-0.130	-0.284
Mathematics	6	English	-0.160	0.005	-0.034	0.089	-0.128	-0.291
Mathematics	7	English	-0.168	-0.008	-0.036	0.087	-0.136	-0.293
Mathematics	8	English	-0.186	-0.001	-0.033	0.086	-0.133	-0.286
Mathematics	9	English	-0.269	-0.012	-0.044	0.077	-0.142	-0.307
Mathematics	10	English	-0.244	0.014	-0.037	0.073	-0.150	-0.305
Reading	3	English	-0.072	-0.090	-0.028	0.035	-0.094	-0.292
Reading	4	English	-0.094	-0.104	-0.041	0.035	-0.110	-0.305
Reading	5	English	-0.104	-0.092	-0.033	0.049	-0.100	-0.302
Reading	6	English	-0.146	-0.095	-0.029	0.044	-0.110	-0.324
Reading	7	English	-0.156	-0.119	-0.027	0.040	-0.107	-0.322
Reading	8	English	-0.169	-0.139	-0.027	0.046	-0.106	-0.306
Reading	9	English	-0.245	-0.134	-0.032	0.042	-0.103	-0.313
Reading	10	English	-0.233	-0.171	-0.033	0.026	-0.114	-0.290
Reading	3	Spanish	-0.065	-0.121	0.042		-0.008	0.014
Reading	4	Spanish	-0.231	-0.114				-0.001
Science	5	English	-0.074	0.041	-0.035	0.042	-0.128	-0.368
Science	8	English	-0.162	0.018	-0.033	0.052	-0.136	-0.336
Science	10	English	-0.225	0.033	-0.034	0.032	-0.146	-0.348
Writing	3	English	-0.083	-0.143	-0.039	0.033	-0.099	-0.284
Writing	4	English	-0.105	-0.158	-0.043	0.056	-0.094	-0.285
Writing	5	English	-0.118	-0.190	-0.039	0.067	-0.091	-0.281
Writing	6	English	-0.160	-0.196	-0.041	0.069	-0.093	-0.293
Writing	7	English	-0.169	-0.224	-0.037	0.066	-0.098	-0.292
Writing	8	English	-0.174	-0.233	-0.030	0.051	-0.099	-0.276
Writing	9	English	-0.255	-0.202	-0.042	0.039	-0.107	-0.307
Writing	10	English	-0.241	-0.212	-0.035	0.051	-0.114	-0.288
Writing	3	Spanish	-0.080	-0.167	0.014		-0.007	0.010
Writing	4	Spanish	-0.237	-0.201				-0.004

**Table 252. Predictive Validity Coefficients**

<b>Content Area</b>	<b>Grade in 2008</b>	<b>Grade in 2009</b>	<b>Number Matched</b>	<b>Reliability 2008</b>	<b>Reliability 2009</b>	<b>Correlation <math>r_{2008-2009}</math></b>	<b>Validity Coefficient</b>
Mathematics	3	4	55905	0.94	0.94	0.82	0.87
Mathematics	4	5	55172	0.94	0.94	0.87	0.92
Mathematics	5	6	53957	0.94	0.94	0.88	0.94
Mathematics	6	7	53576	0.93	0.94	0.89	0.96
Mathematics	7	8	53398	0.94	0.94	0.90	0.96
Mathematics	8	9	52766	0.93	0.93	0.89	0.95
Mathematics	9	10	51275	0.92	0.93	0.89	0.96
Reading	3	4	54145	0.93	0.93	0.82	0.88
Reading	4	5	54736	0.92	0.93	0.86	0.93
Reading	5	6	53507	0.92	0.93	0.86	0.93
Reading	6	7	53523	0.92	0.93	0.87	0.94
Reading	7	8	53495	0.93	0.92	0.87	0.94
Reading	8	9	53194	0.93	0.93	0.86	0.93
Reading	9	10	51595	0.92	0.94	0.85	0.92
Spanish Reading	3	4	56	0.92	0.93	0.74	0.80
Writing	3	4	54260	0.92	0.92	0.73	0.80
Writing	4	5	55104	0.91	0.90	0.75	0.83
Writing	5	6	53544	0.91	0.91	0.79	0.87
Writing	6	7	53838	0.91	0.91	0.81	0.89
Writing	7	8	53663	0.91	0.90	0.80	0.89
Writing	8	9	53486	0.92	0.92	0.81	0.88
Writing	9	10	51875	0.92	0.91	0.79	0.87
Spanish Writing	3	4	58	0.85	0.87	0.65	0.76



**Table 253. Classification Consistency and Classification Accuracy for Mathematics Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0734	0.0169	0.0000	0.0000	0.0904
Partially Proficient	0.0175	0.1524	0.0344	0.0000	0.2043
Proficient	0.0000	0.0381	0.3346	0.0431	0.4158
Advanced	0.0000	0.0000	0.0513	0.2383	0.2895
Sum	0.0910	0.2074	0.4202	0.2814	1.0000
Observed Score Dist.	0.0728	0.2348	0.4277	0.2647	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9655	0.9276	0.9056	0.7987
Chance Probability ( $P_c$ )	0.8351	0.5828	0.5920	0.3068
Kappa	0.7910	0.8264	0.7686	0.7096
Classification Accuracy	0.9757	0.9468	0.9333	0.8558

**Table 254. Classification Consistency and Classification Accuracy for Mathematics Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0742	0.0177	0.0000	0.0000	0.0919
Partially Proficient	0.0161	0.1724	0.0363	0.0000	0.2248
Proficient	0.0000	0.0376	0.3267	0.0475	0.4118
Advanced	0.0000	0.0000	0.0487	0.2227	0.2715
Sum	0.0904	0.2277	0.4117	0.2702	1.0000
Observed Score Dist.	0.0872	0.2074	0.4277	0.2777	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9662	0.9261	0.9038	0.7961
Chance Probability ( $P_c$ )	0.8343	0.5667	0.6050	0.3024
Kappa	0.7961	0.8294	0.7564	0.7077
Classification Accuracy	0.9754	0.9488	0.9310	0.8551

**Table 255. Classification Consistency and Classification Accuracy for Mathematics Grade 5****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0959	0.0214	0.0001	0.0000	0.1174
Partially Proficient	0.0218	0.1911	0.0339	0.0000	0.2468
Proficient	0.0000	0.0416	0.2665	0.0408	0.3489
Advanced	0.0000	0.0000	0.0415	0.2455	0.2869
Sum	0.1176	0.2541	0.3420	0.2863	1.0000
Observed Score Dist.	0.1135	0.2526	0.3528	0.2811	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9567	0.9245	0.9178	0.7990
Chance Probability ( $P_c$ )	0.7926	0.5348	0.5911	0.2780
Kappa	0.7912	0.8376	0.7989	0.7216
Classification Accuracy	0.9693	0.9465	0.9406	0.8564

**Table 256. Classification Consistency and Classification Accuracy for Mathematics Grade 6****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1042	0.0267	0.0000	0.0000	0.1309
Partially Proficient	0.0269	0.1748	0.0402	0.0000	0.2418
Proficient	0.0002	0.0387	0.2745	0.0381	0.3515
Advanced	0.0000	0.0000	0.0382	0.2375	0.2758
Sum	0.1313	0.2402	0.3530	0.2756	1.0000
Observed Score Dist.	0.1238	0.2483	0.3564	0.2714	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9462	0.9209	0.9237	0.7910
Chance Probability ( $P_c$ )	0.7722	0.5327	0.6006	0.2753
Kappa	0.7637	0.8308	0.8089	0.7116
Classification Accuracy	0.9635	0.9447	0.9467	0.8549

**Table 257. Classification Consistency and Classification Accuracy for Mathematics Grade 7****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1125	0.0287	0.0000	0.0000	0.1412
Partially Proficient	0.0304	0.2401	0.0428	0.0000	0.3133
Proficient	0.0000	0.0406	0.2288	0.0353	0.3048
Advanced	0.0000	0.0001	0.0313	0.2093	0.2407
Sum	0.1428	0.3096	0.3029	0.2447	1.0000
Observed Score Dist.	0.1354	0.3190	0.3079	0.2377	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9409	0.9164	0.9333	0.7906
Chance Probability ( $P_c$ )	0.7563	0.5043	0.6324	0.2684
Kappa	0.7573	0.8313	0.8184	0.7138
Classification Accuracy	0.9575	0.9407	0.9509	0.8491

**Table 258. Classification Consistency and Classification Accuracy for Mathematics Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1551	0.0356	0.0000	0.0000	0.1906
Partially Proficient	0.0376	0.2276	0.0417	0.0003	0.3072
Proficient	0.0001	0.0435	0.2316	0.0307	0.3060
Advanced	0.0000	0.0001	0.0295	0.1665	0.1962
Sum	0.1928	0.3068	0.3029	0.1974	1.0000
Observed Score Dist.	0.1870	0.3100	0.3130	0.1900	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9267	0.9142	0.9394	0.7808
Chance Probability ( $P_c$ )	0.6901	0.5000	0.6839	0.2624
Kappa	0.7635	0.8284	0.8082	0.7028
Classification Accuracy	0.9484	0.9383	0.9562	0.8429

**Table 259. Classification Consistency and Classification Accuracy for Mathematics Grade 9****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.3075	0.0474	0.0004	0.0000	0.3554
Partially Proficient	0.0454	0.1987	0.0419	0.0000	0.2860
Proficient	0.0001	0.0363	0.1761	0.0217	0.2342
Advanced	0.0000	0.0000	0.0228	0.1017	0.1244
Sum	0.3531	0.2824	0.2412	0.1233	1.0000
Observed Score Dist.	0.3528	0.2909	0.2367	0.1196	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9066	0.9212	0.9556	0.7839
Chance Probability ( $P_c$ )	0.5425	0.5383	0.7829	0.2781
Kappa	0.7959	0.8293	0.7953	0.7007
Classification Accuracy	0.9344	0.9448	0.9712	0.8503

**Table 260. Classification Consistency and Classification Accuracy for Mathematics Grade 10****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2850	0.0498	0.0000	0.0000	0.3348
Partially Proficient	0.0455	0.2638	0.0364	0.0000	0.3458
Proficient	0.0001	0.0384	0.2059	0.0148	0.2592
Advanced	0.0000	0.0000	0.0133	0.0469	0.0602
Sum	0.3306	0.3520	0.2556	0.0617	1.0000
Observed Score Dist.	0.3304	0.3568	0.2567	0.0561	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9045	0.9251	0.9719	0.8016
Chance Probability ( $P_c$ )	0.5560	0.5660	0.8855	0.3024
Kappa	0.7849	0.8274	0.7547	0.7156
Classification Accuracy	0.9308	0.9477	0.9807	0.8591



**Table 261. Classification Consistency and Classification Accuracy for Reading Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0746	0.0203	0.0006	0.0000	0.0955
Partially Proficient	0.0171	0.1148	0.0506	0.0000	0.1826
Proficient	0.0004	0.0513	0.5417	0.0368	0.6303
Advanced	0.0000	0.0000	0.0360	0.0557	0.0917
Sum	0.0922	0.1864	0.6289	0.0925	1.0001
Observed Score Dist.	0.0877	0.1837	0.6590	0.0697	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9615	0.8970	0.9272	0.7867
Chance Probability ( $P_c$ )	0.8299	0.5983	0.8328	0.4477
Kappa	0.7737	0.7435	0.5645	0.6138
Classification Accuracy	0.9717	0.9248	0.9486	0.8452

**Table 262. Classification Consistency and Classification Accuracy for Reading Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1087	0.0218	0.0000	0.0000	0.1305
Partially Proficient	0.0223	0.1562	0.0432	0.0000	0.2217
Proficient	0.0000	0.0413	0.5020	0.0260	0.5693
Advanced	0.0000	0.0000	0.0287	0.0498	0.0785
Sum	0.1309	0.2193	0.5740	0.0757	1.0000
Observed Score Dist.	0.1274	0.2192	0.5887	0.0647	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9559	0.9155	0.9453	0.8167
Chance Probability ( $P_c$ )	0.7728	0.5443	0.8577	0.3984
Kappa	0.8061	0.8145	0.6156	0.6953
Classification Accuracy	0.9682	0.9436	0.9623	0.8741

**Table 263. Classification Consistency and Classification Accuracy for Reading Grade 5****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1050	0.0197	0.0001	0.0000	0.1247
Partially Proficient	0.0205	0.1317	0.0390	0.0000	0.1912
Proficient	0.0001	0.0363	0.5095	0.0340	0.5800
Advanced	0.0000	0.0000	0.0349	0.0692	0.1041
Sum	0.1256	0.1877	0.5836	0.1032	1.0000
Observed Score Dist.	0.1220	0.1887	0.5996	0.0897	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9597	0.9245	0.9311	0.8154
Chance Probability ( $P_c$ )	0.7810	0.5687	0.8142	0.4007
Kappa	0.8159	0.8248	0.6290	0.6919
Classification Accuracy	0.9713	0.9443	0.9512	0.8668

**Table 264. Classification Consistency and Classification Accuracy for Reading Grade 6****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0780	0.0162	0.0000	0.0000	0.0942
Partially Proficient	0.0196	0.1312	0.0347	0.0000	0.1856
Proficient	0.0001	0.0361	0.5137	0.0377	0.5876
Advanced	0.0000	0.0000	0.0392	0.0934	0.1326
Sum	0.0978	0.1835	0.5876	0.1311	1.0000
Observed Score Dist.	0.0927	0.1860	0.5997	0.1216	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9641	0.9291	0.9231	0.8164
Chance Probability ( $P_c$ )	0.8264	0.5963	0.7710	0.4059
Kappa	0.7929	0.8244	0.6642	0.6909
Classification Accuracy	0.9731	0.9508	0.9459	0.8698

**Table 265. Classification Consistency and Classification Accuracy for Reading Grade 7****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1032	0.0209	0.0000	0.0000	0.1241
Partially Proficient	0.0198	0.1418	0.0439	0.0000	0.2056
Proficient	0.0001	0.0431	0.4976	0.0310	0.5717
Advanced	0.0000	0.0000	0.0319	0.0668	0.0987
Sum	0.1230	0.2058	0.5734	0.0978	1.0000
Observed Score Dist.	0.1191	0.2051	0.5894	0.0863	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9592	0.9129	0.9372	0.8094
Chance Probability ( $P_c$ )	0.7834	0.5583	0.8228	0.3950
Kappa	0.8117	0.8029	0.6453	0.6849
Classification Accuracy	0.9706	0.9372	0.9550	0.8628

**Table 266. Classification Consistency and Classification Accuracy for Reading Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0933	0.0195	0.0000	0.0000	0.1128
Partially Proficient	0.0213	0.1725	0.0477	0.0000	0.2416
Proficient	0.0001	0.0496	0.4803	0.0313	0.5613
Advanced	0.0000	0.0000	0.0293	0.0549	0.0842
Sum	0.1148	0.2417	0.5573	0.0862	1.0000
Observed Score Dist.	0.1104	0.2395	0.5790	0.0711	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9591	0.9025	0.9394	0.8011
Chance Probability ( $P_c$ )	0.7983	0.5418	0.8441	0.3914
Kappa	0.7970	0.7872	0.6114	0.6732
Classification Accuracy	0.9718	0.9326	0.9602	0.8646

**Table 267. Classification Consistency and Classification Accuracy for Reading Grade 9****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0623	0.0154	0.0000	0.0000	0.0776
Partially Proficient	0.0169	0.1844	0.0401	0.0000	0.2413
Proficient	0.0000	0.0417	0.5789	0.0160	0.6367
Advanced	0.0000	0.0000	0.0181	0.0263	0.0444
Sum	0.0791	0.2415	0.6371	0.0423	1.0000
Observed Score Dist.	0.0747	0.2415	0.6503	0.0336	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9678	0.9182	0.9659	0.8519
Chance Probability ( $P_c$ )	0.8555	0.5650	0.9171	0.4719
Kappa	0.7770	0.8121	0.5887	0.7196
Classification Accuracy	0.9764	0.9420	0.9768	0.8952

**Table 268. Classification Consistency and Classification Accuracy for Reading Grade 10****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0587	0.0143	0.0000	0.0000	0.0730
Partially Proficient	0.0150	0.1660	0.0366	0.0000	0.2176
Proficient	0.0000	0.0337	0.5373	0.0290	0.6001
Advanced	0.0000	0.0000	0.0310	0.0784	0.1093
Sum	0.0737	0.2140	0.6049	0.1074	1.0000
Observed Score Dist.	0.0709	0.2128	0.6182	0.0981	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9708	0.9296	0.9400	0.8404
Chance Probability ( $P_c$ )	0.8641	0.5889	0.8067	0.4267
Kappa	0.7850	0.8288	0.6896	0.7216
Classification Accuracy	0.9792	0.9480	0.9582	0.8854



**Table 269. Classification Consistency and Classification Accuracy for Science Grade 5****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1239	0.0308	0.0000	0.0000	0.1547
Partially Proficient	0.0325	0.3104	0.0467	0.0001	0.3897
Proficient	0.0000	0.0530	0.2296	0.0365	0.3192
Advanced	0.0000	0.0003	0.0359	0.1003	0.1365
Sum	0.1564	0.3945	0.3122	0.1369	1.0000
Observed Score Dist.	0.1478	0.4031	0.3211	0.1280	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9367	0.8999	0.9271	0.7642
Chance Probability ( $P_c$ )	0.7373	0.5045	0.7640	0.2962
Kappa	0.7591	0.7980	0.6912	0.6649
Classification Accuracy	0.9570	0.9258	0.9488	0.8316

**Table 270. Classification Consistency and Classification Accuracy for Science Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2006	0.0382	0.0002	0.0000	0.2390
Partially Proficient	0.0370	0.1788	0.0491	0.0000	0.2649
Proficient	0.0005	0.0495	0.3297	0.0262	0.4060
Advanced	0.0000	0.0000	0.0229	0.0671	0.0901
Sum	0.2381	0.2665	0.4020	0.0934	1.0000
Observed Score Dist.	0.2335	0.2736	0.4094	0.0835	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9241	0.9007	0.9508	0.7763
Chance Probability ( $P_c$ )	0.6367	0.5000	0.8334	0.2991
Kappa	0.7910	0.8013	0.7049	0.6809
Classification Accuracy	0.9454	0.9281	0.9655	0.8389

**Table 271. Classification Consistency and Classification Accuracy for Science Grade 10****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2334	0.0359	0.0020	0.0000	0.2714
Partially Proficient	0.0366	0.1292	0.0505	0.0000	0.2163
Proficient	0.0014	0.0539	0.3547	0.0249	0.4349
Advanced	0.0000	0.0000	0.0223	0.0551	0.0774
Sum	0.2715	0.2191	0.4295	0.0800	1.0000
Observed Score Dist.	0.2654	0.2226	0.4422	0.0697	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9240	0.8922	0.9529	0.7725
Chance Probability ( $P_c$ )	0.6045	0.5002	0.8550	0.3140
Kappa	0.8079	0.7842	0.6748	0.6684
Classification Accuracy	0.9433	0.9257	0.9670	0.8362

**Table 272. Classification Consistency and Classification Accuracy for Writing Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0464	0.0143	0.0000	0.0000	0.0606
Partially Proficient	0.0144	0.3330	0.0600	0.0000	0.4074
Proficient	0.0000	0.0540	0.3102	0.0485	0.4128
Advanced	0.0000	0.0003	0.0475	0.0714	0.1192
Sum	0.0608	0.4016	0.4177	0.1199	1.0000
Observed Score Dist.	0.0577	0.4047	0.4458	0.0918	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9714	0.8857	0.9037	0.7610
Chance Probability ( $P_c$ )	0.8860	0.5024	0.7895	0.3540
Kappa	0.7489	0.7702	0.5426	0.6300
Classification Accuracy	0.9806	0.9169	0.9342	0.8317

**Table 273. Classification Consistency and Classification Accuracy for Writing Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0661	0.0199	0.0000	0.0000	0.0860
Partially Proficient	0.0187	0.3293	0.0615	0.0005	0.4100
Proficient	0.0000	0.0599	0.2994	0.0370	0.3964
Advanced	0.0000	0.0001	0.0391	0.0684	0.1077
Sum	0.0847	0.4092	0.4001	0.1060	1.0000
Observed Score Dist.	0.0817	0.4105	0.4207	0.0871	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9614	0.8780	0.9232	0.7632
Chance Probability ( $P_c$ )	0.8438	0.5000	0.8092	0.3450
Kappa	0.7530	0.7559	0.5976	0.6385
Classification Accuracy	0.9717	0.9121	0.9469	0.8308

**Table 274. Classification Consistency and Classification Accuracy for Writing Grade 5****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0374	0.0157	0.0000	0.0000	0.0531
Partially Proficient	0.0152	0.2921	0.0548	0.0000	0.3620
Proficient	0.0000	0.0575	0.3725	0.0379	0.4679
Advanced	0.0000	0.0000	0.0383	0.0787	0.1169
Sum	0.0526	0.3653	0.4655	0.1166	1.0000
Observed Score Dist.	0.0488	0.3689	0.4826	0.0997	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9691	0.8877	0.9238	0.7806
Chance Probability ( $P_c$ )	0.8998	0.5139	0.7938	0.3665
Kappa	0.6916	0.7689	0.6308	0.6537
Classification Accuracy	0.9773	0.9206	0.9471	0.8450

**Table 275. Classification Consistency and Classification Accuracy for Writing Grade 6****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0326	0.0138	0.0000	0.0000	0.0464
Partially Proficient	0.0120	0.2799	0.0509	0.0000	0.3428
Proficient	0.0000	0.0544	0.3974	0.0363	0.4882
Advanced	0.0000	0.0000	0.0379	0.0847	0.1226
Sum	0.0446	0.3482	0.4862	0.1211	1.0000
Observed Score Dist.	0.0418	0.3448	0.5093	0.1041	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9742	0.8946	0.9258	0.7946
Chance Probability ( $P_c$ )	0.9131	0.5238	0.7860	0.3736
Kappa	0.7026	0.7787	0.6533	0.6721
Classification Accuracy	0.9813	0.9230	0.9487	0.8530

**Table 276. Classification Consistency and Classification Accuracy for Writing Grade 7****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0225	0.0103	0.0000	0.0000	0.0328
Partially Proficient	0.0105	0.2875	0.0525	0.0001	0.3507
Proficient	0.0000	0.0491	0.3672	0.0415	0.4577
Advanced	0.0000	0.0000	0.0435	0.1153	0.1588
Sum	0.0330	0.3470	0.4631	0.1569	1.0000
Observed Score Dist.	0.0285	0.3489	0.4774	0.1452	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9792	0.8983	0.9149	0.7925
Chance Probability ( $P_c$ )	0.9364	0.5280	0.7341	0.3597
Kappa	0.6726	0.7845	0.6801	0.6760
Classification Accuracy	0.9849	0.9237	0.9401	0.8487



**Table 277. Classification Consistency and Classification Accuracy for Writing Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0245	0.0108	0.0000	0.0000	0.0353
Partially Proficient	0.0096	0.3624	0.0607	0.0001	0.4329
Proficient	0.0000	0.0595	0.3356	0.0347	0.4298
Advanced	0.0000	0.0000	0.0338	0.0683	0.1021
Sum	0.0341	0.4327	0.4301	0.1031	1.0000
Observed Score Dist.	0.0312	0.4368	0.4464	0.0855	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9796	0.8796	0.9313	0.7907
Chance Probability ( $P_c$ )	0.9331	0.5021	0.8159	0.3839
Kappa	0.6948	0.7582	0.6271	0.6602
Classification Accuracy	0.9855	0.9108	0.9508	0.8471

**Table 278. Classification Consistency and Classification Accuracy for Writing Grade 9****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0357	0.0143	0.0000	0.0000	0.0499
Partially Proficient	0.0122	0.3566	0.0545	0.0000	0.4233
Proficient	0.0000	0.0532	0.3500	0.0298	0.4330
Advanced	0.0000	0.0000	0.0310	0.0628	0.0937
Sum	0.0479	0.4240	0.4355	0.0926	1.0000
Observed Score Dist.	0.0441	0.4308	0.4455	0.0796	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9735	0.8923	0.9392	0.8050
Chance Probability ( $P_c$ )	0.9070	0.5015	0.8310	0.3792
Kappa	0.7154	0.7840	0.6402	0.6860
Classification Accuracy	0.9800	0.9241	0.9574	0.8615

**Table 279. Classification Consistency and Classification Accuracy for Writing Grade 10****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0545	0.0184	0.0000	0.0000	0.0729
Partially Proficient	0.0159	0.3456	0.0569	0.0000	0.4185
Proficient	0.0000	0.0588	0.3255	0.0299	0.4142
Advanced	0.0000	0.0000	0.0295	0.0649	0.0944
Sum	0.0704	0.4228	0.4119	0.0948	1.0000
Observed Score Dist.	0.0689	0.4239	0.4267	0.0805	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9656	0.8843	0.9406	0.7906
Chance Probability ( $P_c$ )	0.8669	0.5001	0.8287	0.3617
Kappa	0.7418	0.7685	0.6534	0.6719
Classification Accuracy	0.9761	0.9182	0.9571	0.8514

**Table 280. Classification Consistency and Classification Accuracy for Spanish Reading Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1402	0.0293	0.0016	0.0000	0.1711
Partially Proficient	0.0338	0.1201	0.0514	0.0000	0.2053
Proficient	0.0011	0.0557	0.3883	0.0493	0.4945
Advanced	0.0000	0.0000	0.0406	0.0885	0.1291
Sum	0.1751	0.2052	0.4819	0.1378	1.0000
Observed Score Dist.	0.1689	0.2004	0.5162	0.1145	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9342	0.8901	0.9101	0.7371
Chance Probability ( $P_c$ )	0.7137	0.5296	0.7687	0.3282
Kappa	0.7701	0.7665	0.6113	0.6087
Classification Accuracy	0.9511	0.9169	0.9378	0.8059

**Table 281. Classification Consistency and Classification Accuracy for Spanish Reading  
Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2899	0.0497	0.0003	0.0000	0.3399
Partially Proficient	0.0493	0.1740	0.0466	0.0000	0.2698
Proficient	0.0005	0.0479	0.3058	0.0105	0.3647
Advanced	0.0000	0.0000	0.0089	0.0166	0.0255
Sum	0.3397	0.2717	0.3617	0.0270	1.0000
Observed Score Dist.	0.3554	0.2771	0.3434	0.0241	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9002	0.9046	0.9806	0.7863
Chance Probability ( $P_c$ )	0.5513	0.5244	0.9489	0.3214
Kappa	0.7775	0.7995	0.6212	0.6851
Classification Accuracy	0.9285	0.9321	0.9876	0.8481

**Table 282. Classification Consistency and Classification Accuracy for Spanish Writing Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1091	0.0318	0.0004	0.0000	0.1414
Partially Proficient	0.0300	0.1427	0.0577	0.0003	0.2307
Proficient	0.0005	0.0547	0.2686	0.0624	0.3862
Advanced	0.0000	0.0001	0.0599	0.1817	0.2417
Sum	0.1396	0.2294	0.3866	0.2444	1.0000
Observed Score Dist.	0.1332	0.2354	0.3975	0.2339	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9373	0.8863	0.8773	0.7022
Chance Probability ( $P_c$ )	0.7585	0.5335	0.6320	0.2810
Kappa	0.7404	0.7562	0.6666	0.5857
Classification Accuracy	0.9541	0.9218	0.9102	0.7862

**Table 283. Classification Consistency and Classification Accuracy for Spanish Writing  
Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.3844	0.0782	0.0010	0.0000	0.4636
Partially Proficient	0.0646	0.1973	0.0445	0.0000	0.3065
Proficient	0.0010	0.0519	0.1642	0.0040	0.2210
Advanced	0.0000	0.0000	0.0036	0.0053	0.0089
Sum	0.4500	0.3274	0.2133	0.0093	1.0000
Observed Score Dist.	0.3313	0.3976	0.2530	0.0181	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.8552	0.9016	0.9924	0.7512
Chance Probability ( $P_c$ )	0.5036	0.6499	0.9820	0.3562
Kappa	0.7082	0.7191	0.5801	0.6136
Classification Accuracy	0.8995	0.9316	0.9943	0.8254

**Table 284. 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	491	72.8	504	486	99.3	488	485	60.3
4	2003	55108	486	479	73.5	497	479	91.7	486	486	64.7
4	2004	54546	492	490	65.9	517	505	107.6	492	489	59.5
4	2005	54339	494	486	74.3	504	516	98.6	490	488	64.8
4	2006	55640	486	488	66.1	510	495	109.6	486	484	60.3
4	2007	56278	487	481	64.5	494	479	87.8	485	482	58.9
4	2008	57957	489	487	64.7	517	495	112.7	489	487	59.5
4	2009	59548	487	485	64.0	504	527	106.7	486	484	60.9
5	2002	56398	503	503	66.0	518	503	105.8	502	501	60.4
5	2003	56822	503	504	72.3	531	500	121.1	504	503	65.3
5	2004	55946	505	500	73.5	525	508	107.7	507	505	66.4
5	2005	55191	512	509	70.5	543	525	130.2	510	506	65.5
5	2006	55800	513	511	72.7	533	484	114.2	514	511	69.4
5	2007	56704	509	507	65.9	531	538	112.9	508	506	62.4
5	2008	57019	512	510	75.2	535	536	120.2	512	510	71.6
5	2009	58785	510	509	65.9	536	532	117.3	510	508	63.1
6	2002	55632	518	518	76.1	528	529	95.2	518	518	68.4
6	2003	56674	521	521	71.2	549	524	123.8	523	523	67.5
6	2004	56744	523	522	73.7	559	547	134.6	524	521	70.1
6	2005	56200	532	527	82.8	536	496	106.2	529	528	74.0
6	2006	56097	531	526	82.9	542	490	116.2	529	526	76.5
6	2007	56380	530	527	80.0	539	600	104.0	529	528	74.6
6	2008	56901	533	530	83.4	558	538	138.4	531	526	78.1
6	2009	57379	530	528	73.9	545	576	114.9	529	528	69.2
7	2002	54338	544	541	79.8	558	542	106.0	543	541	70.3
7	2003	56609	544	546	78.9	580	554	141.4	547	548	73.9
7	2004	57016	546	543	94.4	574	557	147.7	545	542	85.5
7	2005	57201	551	546	90.2	552	503	113.6	548	545	82.7
7	2006	57323	550	548	91.5	577	577	145.3	550	549	83.8
7	2007	56769	561	555	88.8	573	648	105.0	560	556	82.5
7	2008	56813	553	550	89.0	580	572	142.7	553	554	83.1
7	2009	57395	562	557	84.1	575	622	118.3	561	559	78.8
8	2002	53466	554	551	85.9	586	586	124.3	558	557	76.0
8	2003	54894	555	556	82.4	590	592	136.5	558	558	79.4
8	2004	56410	556	555	90.1	576	583	142.1	554	553	84.4
8	2005	56821	559	557	87.4	572	558	127.7	558	555	82.1
8	2006	58095	560	558	87.6	557	552	125.0	556	556	83.1
8	2007	57631	563	559	94.0	577	601	119.5	562	556	86.6
8	2008	56658	564	561	91.9	580	612	131.2	563	562	87.8
8	2009	57100	564	559	87.3	582	587	116.2	563	561	79.1



**Table 284. Mean and Median Scale Scores by Year for Writing Subcontent Areas:  
Paragraph Writing and Extended Writing (Concluded)**

Grade	Year	N	Paragraph Writing (SA5)			Extended Writing (SA6)			Combine SA5 and SA6		
			Mean	Median	SD	Mean	Median	SD	Mean	Median	SD
9	2002	52972	563	563	92.0	581	637	121.7	564	564	87.2
9	2003	55540	572	570	98.0	611	593	157.0	573	569	90.9
9	2004	56588	571	569	94.8	580	545	94.6	572	572	79.7
9	2005	57703	569	569	96.1	576	524	104.9	568	564	84.8
9	2006	58795	570	570	96.1	568	536	105.2	567	561	88.0
9	2007	59521	569	564	97.3	580	635	124.1	567	563	89.1
9	2008	59076	567	563	98.2	569	498	448.8	565	559	90.0
9	2009	58939	572	567	95.9	590	616	130.3	570	568	87.3
10	2002	49009	587	588	96.7	606	580	138.4	586	585	88.8
10	2003	49658	591	583	107.6	641	590	185.8	589	583	100.0
10	2004	50756	584	577	96.7	588	537	117.2	581	578	84.8
10	2005	51638	580	576	97.5	582	529	111.0	578	575	88.2
10	2006	53754	584	581	101.2	586	523	112.1	581	578	91.1
10	2007	54683	586	579	104.9	594	649	123.2	583	583	94.0
10	2008	55306	579	572	109.3	590	635	142.5	577	573	100.9
10	2009	55818	584	578	102.3	596	638	119.7	582	581	91.7