

# CMAS Technical Report 2021– Tables

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**Table 1. CMAS Subject and Grade Combinations**

Subject	Grade					
	3	4	5	6	7	8
Math	X	X	X	X	X	X
ELA	X	X	X	X	X	X
CSLA	X	X				
Science						X

**Table 2. CMAS Scale Score Ranges**

Content Area	Grade	Did Not Yet Meet Expectations	Partially Met Expectations	Approached Expectations	Met Expectations	Exceeded Expectations
Math	3	650–699	700–724	725–749	750–789	790–850
	4	650–699	700–724	725–749	750–795	796–850
	5	650–699	700–724	725–749	750–789	790–850
	6	650–699	700–724	725–749	750–787	788–850
	7	650–699	700–724	725–749	750–785	786–850
	8	650–699	700–724	725–749	750–800	801–850
ELA	3	650–699	700–724	725–749	750–809	810–850
	4	650–699	700–724	725–749	750–789	790–850
	5	650–699	700–724	725–749	750–798	799–850
	6	650–699	700–724	725–749	750–789	790–850
	7	650–699	700–724	725–749	750–784	785–850
	8	650–699	700–724	725–749	750–793	794–850
CSLA	3	650–699	700–724	725–749	750–778	779–850
	4	650–699	700–724	725–749	750–771	772–850
Science	8		300–555	556–651	652–784	785–900

**Table 3. Coefficient Alpha**

<b>Content Area</b>	<b>Grade</b>	<b>Subclaim 1</b>	<b>Subclaim 2</b>	<b>Subclaim 3</b>	<b>Reading Claim</b>	<b>Subclaim 4</b>	<b>Subclaim 5</b>	<b>Writing Claim</b>	<b>Full Test</b>
MATH	3	0.86	0.78	0.63		0.66			0.92
	4	0.88	0.67	0.67		0.67			0.92
	5	0.88	0.70	0.72		0.65			0.92
	6	0.82	0.62	0.75		0.64			0.90
	7	0.82	0.57	0.74		0.53			0.89
	8	0.82	0.54	0.77		0.43			0.89
ELA	3	0.74	0.77	0.63	0.88	0.67	0.77	0.72	0.90
	4	0.74	0.76	0.65	0.88	0.68	0.79	0.76	0.89
	5	0.71	0.66	0.39	0.83	0.63	0.70	0.72	0.86
	6	0.74	0.69	0.47	0.84	0.63	0.75	0.73	0.88
	7	0.74	0.68	0.53	0.85	0.81	0.81	0.81	0.88
	8	0.73	0.75	0.56	0.87	0.86	0.87	0.85	0.89
CSLA	3	0.74	0.55	0.64	0.85	0.46	0.72	0.62	0.84
	4	0.83	0.68	0.56	0.87	0.74	0.75	0.74	0.88
Science	8	0.82	0.83	0.84		0.79			0.94

Note: For mathematics, Subclaims 1, 2, 3, and 4 are Subclaims A, B, C, and D, respectively. For ELA and CSLA, Subclaims 1, 2, 3, 4, and 5 are RL, RI, RV, WE, and WKL, respectively. For Science, Subclaims 1, 2, 3, and 4 are Physical Science, Life Science, Earth Systems Science, and Scientific Investigations and the Nature of Science, respectively.

**Table 4. Mathematics Grade 3 Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	5,304	744.50	36.15	650	850	0.91
IEP	638	709.48	36.22	650	842	0.93
No Accommodation	4,950	746.86	35.52	650	850	0.91
Accommodation	992	710.19	33.46	650	817	0.90
Am. Indian/Alaska Native	33	719.67	31.92	673	800	0.71
Asian	250	765.27	37.41	651	850	0.88
Black	119	719.59	38.52	650	816	0.92
Hispanic	1,442	722.83	35.89	650	842	0.89
White	3,793	746.50	35.59	650	850	0.91
Hawaiian/Pacific Islander*	n/a	n/a	n/a	n/a	n/a	n/a
Two or More Races	295	744.30	38.23	650	848	0.92
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	4,005	750.43	35.76	650	850	0.91
Economic Disadvantage	1,937	720.70	33.64	650	828	0.90
Female	2,821	738.31	37.24	650	850	0.91
Male	3,121	742.94	38.07	650	850	0.92
Language Proficiency NA	5,298	743.13	36.98	650	850	0.91
Language Proficiency NEP	96	687.77	27.81	650	758	0.86
Language Proficiency LEP	414	717.39	32.15	650	815	0.88
Language Proficiency FEP	134	756.27	34.85	658	842	0.92
Not Migrant	5,922	740.82	37.74	650	850	0.91
Migrant	20	716.85	31.10	664	768	.

\*n-count less than 16

**Table 5. Mathematics Grade 4 Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	41,058	733.21	32.24	650	850	0.91
IEP	5,725	702.49	29.38	650	850	0.90
No Accommodation	37,170	735.78	31.75	650	850	0.91
Accommodation	9,613	704.98	28.21	650	850	0.86
Am. Indian/Alaska Native	267	714.83	32.78	650	803	0.91
Asian	1,516	746.67	35.80	650	850	0.92
Black	1,749	713.67	29.67	650	810	0.91
Hispanic	15,294	713.54	29.39	650	850	0.89
White	25,549	738.75	31.54	650	850	0.91
Hawaiian/Pacific Islander	128	715.13	31.98	650	786	0.90
Two or More Races	2,271	735.25	34.42	650	850	0.91
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	30,360	738.43	32.30	650	850	0.91
Economic Disadvantage	16,423	712.86	28.91	650	850	0.90
Female	22,790	727.71	32.32	650	850	0.91
Male	23,993	731.11	34.42	650	850	0.92
Language Proficiency NA	38,469	733.60	32.82	650	850	0.91
Language Proficiency NEP	1,125	687.38	20.92	650	770	0.76
Language Proficiency LEP	5,038	705.68	25.32	650	834	0.85
Language Proficiency FEP	2,151	732.98	27.88	650	840	0.90
Not Migrant	46,573	729.56	33.44	650	850	0.91
Migrant	210	705.15	28.08	650	789	0.87

\*n-count less than 16

**Table 6. Mathematics Grade 5 Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	5,292	742.14	32.99	650	850	0.91
IEP	643	709.02	28.08	650	798	0.90
No Accommodation	5,006	743.61	32.44	650	850	0.91
Accommodation	929	711.29	29.47	650	832	0.89
Am. Indian/Alaska Native	38	713.95	32.83	666	812	.
Asian	231	760.26	35.48	656	821	0.92
Black	161	728.71	32.62	655	832	0.90
Hispanic	1,566	723.59	31.04	650	832	0.91
White	3,680	744.01	32.87	650	850	0.91
Hawaiian/Pacific Islander*	n/a	n/a	n/a	n/a	n/a	n/a
Two or More Races	249	742.72	34.06	650	823	0.91
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	3,956	746.59	32.99	650	850	0.91
Economic Disadvantage	1,979	722.48	30.34	650	832	0.91
Female	2,908	736.65	33.80	650	850	0.90
Male	3,027	740.37	34.25	650	842	0.92
Language Proficiency NA	5,192	740.68	33.59	650	850	0.91
Language Proficiency NEP	53	695.74	26.12	650	811	0.77
Language Proficiency LEP	338	709.35	24.25	650	790	0.84
Language Proficiency FEP	352	741.60	33.32	652	820	0.90
Not Migrant	5,907	738.63	34.09	650	850	0.91
Migrant	28	721.96	26.98	674	769	.

\*n-count less than 16

**Table 7. Mathematics Grade 6 Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	39,672	730.39	31.13	650	850	0.89
IEP	5,147	697.26	25.91	650	836	0.84
No Accommodation	39,265	730.44	31.23	650	850	0.89
Accommodation	5,554	699.32	26.52	650	825	0.84
Am. Indian/Alaska Native	244	711.88	29.82	650	801	0.91
Asian	1,364	747.15	37.04	650	850	0.91
Black	1,626	711.92	29.72	650	837	0.85
Hispanic	15,411	712.40	28.83	650	845	0.87
White	24,131	735.27	30.50	650	850	0.89
Hawaiian/Pacific Islander	94	719.81	31.62	650	800	0.88
Two or More Races	1,946	731.12	32.75	650	850	0.91
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	29,109	734.85	31.48	650	850	0.89
Economic Disadvantage	15,710	711.27	28.07	650	841	0.86
Female	21,536	725.64	31.61	650	850	0.89
Male	23,283	727.45	33.00	650	850	0.90
Language Proficiency NA	36,449	730.67	31.75	650	850	0.89
Language Proficiency NEP	549	686.28	22.07	650	766	0.73
Language Proficiency LEP	3,409	697.19	23.37	650	827	0.84
Language Proficiency FEP	4,412	720.58	27.89	650	850	0.86
Not Migrant	44,600	726.69	32.35	650	850	0.89
Migrant	219	704.04	25.04	650	785	0.83

\*n-count less than 16

**Table 8. Mathematics Grade 7 Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	4,940	735.47	25.97	650	840	0.86
IEP	570	706.94	20.40	650	779	0.85
No Accommodation	4,937	735.29	26.05	650	840	0.86
Accommodation	573	708.66	21.65	650	783	0.71
Am. Indian/Alaska Native	37	713.00	24.25	650	772	.
Asian	212	756.25	29.82	669	837	0.86
Black	124	720.72	24.65	656	792	0.62
Hispanic	1,398	721.77	24.58	650	815	0.86
White	3,514	735.88	25.81	650	840	0.86
Hawaiian/Pacific Islander*	n/a	n/a	n/a	n/a	n/a	n/a
Two or More Races	218	734.26	27.15	680	821	0.88
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	4,029	737.18	26.59	650	840	0.87
Economic Disadvantage	1,481	719.85	23.40	650	815	0.82
Female	2,671	732.90	27.70	650	840	0.85
Male	2,839	732.16	26.10	650	828	0.88
Language Proficiency NA	4,869	734.15	26.63	650	840	0.86
Language Proficiency NEP	33	700.48	13.52	664	731	.
Language Proficiency LEP	249	706.56	19.32	650	773	0.61
Language Proficiency FEP	359	731.38	24.59	654	799	0.81
Not Migrant	5,493	732.57	26.89	650	840	0.86
Migrant	17	715.65	18.55	682	746	.

\*n-count less than 16

**Table 9. Mathematics Grade 8 Performance by Subgroup**

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	35,234	734.32	37.94	650	850	0.89
IEP	3,971	694.87	26.56	650	837	0.78
No Accommodation	35,063	734.00	38.15	650	850	0.89
Accommodation	4,142	699.16	29.28	650	850	0.82
Am. Indian/Alaska Native	213	712.12	33.75	650	816	0.86
Asian	1,220	757.69	43.16	650	850	0.90
Black	1,296	712.72	34.63	650	850	0.88
Hispanic	13,683	713.34	32.54	650	850	0.87
White	21,083	740.59	37.89	650	850	0.89
Hawaiian/Pacific Islander	93	722.53	34.70	650	808	0.77
Two or More Races	1,612	736.56	39.60	650	850	0.88
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	26,097	739.79	38.79	650	850	0.89
Economic Disadvantage	13,108	711.48	31.27	650	850	0.84
Female	18,335	730.89	37.86	650	850	0.88
Male	20,870	729.83	39.64	650	850	0.90
Language Proficiency NA	32,773	735.33	38.54	650	850	0.89
Language Proficiency NEP	661	687.05	20.73	650	802	0.58
Language Proficiency LEP	2,653	694.81	23.02	650	804	0.73
Language Proficiency FEP	3,118	717.08	29.74	650	850	0.80
Not Migrant	39,012	730.46	38.82	650	850	0.89
Migrant	193	703.27	27.43	650	780	0.85

\*n-count less than 16

**Table 10. ELA Grade 3 Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	40,174	740.89	40.90	650	850	0.84
IEP	5,017	699.09	36.93	650	850	0.86
No Accommodation	42,177	739.04	41.69	650	850	0.85
Accommodation	3,014	697.27	34.53	650	849	0.84
Am. Indian/Alaska Native	273	717.15	40.05	650	850	0.85
Asian	1,459	745.81	42.98	650	850	0.85
Black	1,713	719.70	40.42	650	850	0.86
Hispanic	14,028	717.94	39.37	650	850	0.85
White	25,355	746.71	40.52	650	850	0.84
Hawaiian/Pacific Islander	118	721.10	40.28	650	826	0.83
Two or More Races	2,233	742.23	42.51	650	850	0.85
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	29,341	747.24	40.69	650	850	0.84
Economic Disadvantage	15,850	715.91	38.20	650	850	0.84
Female	21,842	739.73	43.04	650	850	0.85
Male	23,349	733.00	41.83	650	850	0.86
Language Proficiency NA	38,219	741.09	41.63	650	850	0.85
Language Proficiency NEP	1,149	677.22	22.88	650	778	0.66
Language Proficiency LEP	4,804	709.09	32.99	650	847	0.80
Language Proficiency FEP	1,019	749.49	33.39	650	850	0.75
Not Migrant	45,000	736.39	42.54	650	850	0.86
Migrant	191	703.84	31.63	650	782	0.80

\*n-count less than 16

**Table 11. ELA Grade 4 Performance by Subgroup**

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	5,116	747.32	31.70	650	850	0.86
IEP	609	702.90	33.12	650	825	0.88
No Accommodation	5,299	745.63	32.94	650	850	0.87
Accommodation	426	704.86	33.60	650	817	0.89
Am. Indian/Alaska Native	47	725.62	36.55	650	837	0.88
Asian	233	759.08	31.65	650	848	0.85
Black	163	723.13	34.66	650	813	0.88
Hispanic	1,468	727.29	33.32	650	824	0.88
White	3,524	748.40	32.96	650	850	0.87
Hawaiian/Pacific Islander*	n/a	n/a	n/a	n/a	n/a	n/a
Two or More Races	277	750.96	32.99	650	847	0.86
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	3,890	749.77	32.68	650	850	0.87
Economic Disadvantage	1,835	727.38	33.86	650	837	0.88
Female	2,872	746.98	33.73	650	850	0.87
Male	2,853	738.18	35.05	650	850	0.89
Language Proficiency NA	5,024	745.10	34.05	650	850	0.88
Language Proficiency NEP	54	675.87	18.33	650	729	0.55
Language Proficiency LEP	418	718.10	29.65	650	823	0.85
Language Proficiency FEP	229	748.04	25.26	678	830	0.78
Not Migrant	5,708	742.68	34.64	650	850	0.88
Migrant	17	715.59	35.38	650	776	0.87

\*n-count less than 16

**Table 12. ELA Grade 5 Performance by Subgroup**

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	41,316	750.18	30.80	650	850	0.82
IEP	5,601	715.59	27.68	650	849	0.79
No Accommodation	42,967	748.68	31.54	650	850	0.82
Accommodation	3,950	717.52	28.19	650	837	0.80
Am. Indian/Alaska Native	272	732.89	31.98	650	821	0.84
Asian	1,391	756.25	32.92	650	850	0.83
Black	1,792	733.35	29.32	650	838	0.80
Hispanic	15,781	731.21	29.68	650	850	0.80
White	25,364	755.38	30.45	650	850	0.81
Hawaiian/Pacific Islander	105	731.59	31.96	650	798	0.80
Two or More Races	2,201	751.20	32.33	650	850	0.83
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	30,079	754.71	31.07	650	850	0.82
Economic Disadvantage	16,838	730.59	28.92	650	850	0.79
Female	22,911	749.42	32.44	650	850	0.83
Male	24,006	742.84	32.12	650	850	0.84
Language Proficiency NA	38,332	750.58	31.50	650	850	0.82
Language Proficiency NEP	624	698.97	20.27	650	768	0.46
Language Proficiency LEP	4,339	715.59	22.99	650	819	0.65
Language Proficiency FEP	3,622	742.74	26.65	650	850	0.76
Not Migrant	46,693	746.18	32.43	650	850	0.83
Migrant	224	720.13	24.96	650	800	0.72

\*n-count less than 16

**Table 13. ELA Grade 6 Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	4,851	742.52	27.86	650	850	0.81
IEP	588	703.22	26.33	650	795	0.81
No Accommodation	5,066	740.60	29.18	650	850	0.82
Accommodation	373	706.68	26.89	650	806	0.81
Am. Indian/Alaska Native	32	720.53	27.73	672	796	0.85
Asian	188	758.90	29.48	651	850	0.81
Black	114	730.46	30.80	650	817	0.83
Hispanic	1,393	726.54	28.54	650	808	0.82
White	3,471	742.18	29.29	650	830	0.83
Hawaiian/Pacific Islander*	n/a	n/a	n/a	n/a	n/a	n/a
Two or More Races	227	740.14	31.28	654	808	0.85
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	3,936	743.69	29.34	650	850	0.82
Economic Disadvantage	1,503	724.10	27.98	650	817	0.82
Female	2,613	742.29	30.33	650	850	0.83
Male	2,826	734.56	29.72	650	826	0.84
Language Proficiency NA	4,829	740.33	29.79	650	850	0.83
Language Proficiency NEP	31	686.16	22.94	650	743	0.67
Language Proficiency LEP	290	708.77	21.69	650	788	0.72
Language Proficiency FEP	289	739.12	25.53	650	813	0.75
Not Migrant	5,420	738.39	30.20	650	850	0.83
Migrant	19	705.21	31.27	650	766	0.88

\*n-count less than 16

**Table 14. ELA Grade 7 Performance by Subgroup**

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	38,230	746.77	35.12	650	850	0.84
IEP	4,704	703.62	28.75	650	849	0.80
No Accommodation	39,318	745.14	35.95	650	850	0.85
Accommodation	3,616	708.36	31.32	650	836	0.83
Am. Indian/Alaska Native	243	722.47	37.25	650	830	0.86
Asian	1,292	759.62	38.05	650	850	0.85
Black	1,537	728.28	35.32	650	850	0.85
Hispanic	14,731	726.71	33.85	650	850	0.82
White	23,194	751.45	35.29	650	850	0.84
Hawaiian/Pacific Islander	94	733.71	34.55	650	801	0.83
Two or More Races	1,837	748.43	36.68	650	850	0.85
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	28,227	750.95	35.65	650	850	0.85
Economic Disadvantage	14,707	724.95	33.43	650	850	0.82
Female	20,305	748.16	37.06	650	850	0.85
Male	22,629	736.55	36.11	650	850	0.86
Language Proficiency NA	35,127	746.95	36.13	650	850	0.85
Language Proficiency NEP	593	681.66	20.23	650	752	0.52
Language Proficiency LEP	3,087	705.53	24.75	650	808	0.68
Language Proficiency FEP	4,127	736.28	29.52	650	850	0.77
Not Migrant	42,738	742.18	36.99	650	850	0.86
Migrant	196	712.69	31.91	650	796	0.80

\*n-count less than 16

**Table 15. ELA Grade 8 Performance by Subgroup**

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	4,014	747.38	36.31	650	850	0.84
IEP	449	702.64	28.78	650	829	0.80
No Accommodation	4,149	745.56	37.10	650	850	0.85
Accommodation	314	707.58	33.04	650	829	0.86
Am. Indian/Alaska Native	26	729.27	40.67	653	827	0.81
Asian	143	766.90	34.43	667	843	0.81
Black	73	731.14	38.57	655	819	0.86
Hispanic	1,175	729.80	36.53	650	842	0.84
White	2,848	747.52	37.30	650	850	0.86
Hawaiian/Pacific Islander*	n/a	n/a	n/a	n/a	n/a	n/a
Two or More Races	189	742.92	37.15	659	826	0.84
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	3,260	749.53	37.27	650	850	0.85
Economic Disadvantage	1,203	724.87	34.25	650	825	0.84
Female	2,156	750.95	36.58	650	850	0.84
Male	2,307	735.34	37.92	650	850	0.87
Language Proficiency NA	4,021	745.56	37.63	650	850	0.85
Language Proficiency NEP	33	682.00	22.36	650	718	0.59
Language Proficiency LEP	189	705.05	26.18	650	771	0.71
Language Proficiency FEP	220	735.64	30.15	653	811	0.79
Not Migrant	4,446	742.95	38.09	650	850	0.86
Migrant	17	724.18	30.26	669	771	0.83

\*n-count less than 16

**Table 16. CSLA Grade 3 Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	772	724.60	25.02	650	850	0.86
IEP	65	703.65	23.29	650	769	0.84
No Accommodation						
Accommodation	837	722.98	25.50	650	850	0.87
Am. Indian/Alaska Native*	n/a	n/a	n/a	n/a	n/a	n/a
Asian						
Black						
Hispanic	831	722.95	25.56	650	850	0.87
White*	n/a	n/a	n/a	n/a	n/a	n/a
Hawaiian/Pacific Islander						
Two or More Races						
Missing						
No Economic Disadvantage	245	719.89	24.40	650	850	0.85
Economic Disadvantage	592	724.25	25.86	650	800	0.87
Female	395	726.57	25.19	650	792	0.86
Male	442	719.76	25.38	650	850	0.87
Language Proficiency NA						
Language Proficiency NEP	289	713.73	23.89	650	775	0.84
Language Proficiency LEP	548	727.85	24.99	650	850	0.87
Language Proficiency FEP						
Not Migrant	831	723.18	25.43	650	850	0.87
Migrant*	n/a	n/a	n/a	n/a	n/a	n/a

\*n-count less than 16

**Table 17. CSLA Grade 4 Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	50	735.04	25.51	672	785	0.88
IEP*	n/a	n/a	n/a	n/a	n/a	n/a
No Accommodation						
Accommodation	53	732.92	26.34	672	785	0.89
Am. Indian/Alaska Native						
Asian						
Black						
Hispanic	53	732.92	26.34	672	785	0.89
White						
Hawaiian/Pacific Islander						
Two or More Races						
Missing						
No Economic Disadvantage*	n/a	n/a	n/a	n/a	n/a	n/a
Economic Disadvantage	42	737.55	24.65	672	785	0.87
Female	32	736.16	25.45	672	785	0.87
Male	21	728.00	27.53	691	772	0.91
Language Proficiency NA						
Language Proficiency NEP*	n/a	n/a	n/a	n/a	n/a	n/a
Language Proficiency LEP	46	733.61	25.44	672	785	0.87
Language Proficiency FEP						
Not Migrant						
Migrant	53	732.92	26.34	672	785	0.89

\*n-count less than 16

**Table 18. Grade 8 Science Performance by Subgroup**

<b>Subgroup</b>	<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Alpha</b>
No IEP	33238	582.54	113.31	300	900	0.93
IEP	3723	442.49	108.08	300	847	0.90
No Accommodation	33676	580.54	114.43	300	900	0.93
Accommodation	3285	444.37	109.61	300	820	0.90
Am. Indian/Alaska Native	205	519.43	117.97	300	780	0.92
Asian	1150	627.33	115.71	300	900	0.94
Black	1164	512.91	118.95	300	861	0.92
Hispanic	12952	512.26	114.21	300	900	0.92
White	19882	603.99	108.93	300	900	0.93
Hawaiian/Pacific Islander	92	548.65	115.08	300	827	0.93
Two or More Races	1511	587.75	116.38	300	900	0.93
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	24666	598.10	112.81	300	900	0.93
Economic Disadvantage	12295	508.94	112.93	300	864	0.91
Female	17241	573.14	115.65	300	900	0.93
Male	19720	564.32	124.29	300	900	0.94
Language Proficiency NA	28696	586.09	114.95	300	900	0.93
Language Proficiency NEP	625	372.87	78.60	300	693	0.73
Language Proficiency LEP	2479	435.73	88.62	300	759	0.81
Language Proficiency FEP	2972	527.14	94.53	300	866	0.88
Not Migrant	36773	568.93	120.28	300	900	0.94
Migrant	188	472.49	106.99	300	697	0.88

**Table 19. Standard Error of Measurement (SEM) for Writing Claim and Subclaims**

Content Area	Grade	Subclaim 1	Subclaim 2	Subclaim 3	Subclaim 4	Subclaim 5	Writing Claim
MATH	3	1.95	1.18	1.55	1.29		
	4	2.07	1.07	1.65	1.31		
	5	2.08	1.26	1.35	1.51		
	6	1.89	1.38	1.60	1.38		
	7	1.97	1.26	1.43	1.51		
	8	2.09	1.34	1.03	1.85		
ELA	3	1.88	1.87	1.57	1.92	0.58	2.25
	4	1.97	2.12	1.45	2.20	0.65	2.50
	5	2.17	1.88	1.51	2.29	0.68	2.55
	6	2.22	2.24	1.55	2.23	0.66	2.48
	7	1.94	2.30	1.70	2.12	0.69	2.76
	8	2.13	2.31	1.80	2.11	0.67	2.87
CSLA	3	2.04	1.58	1.61	3.36	0.89	3.56
	4	2.08	2.16	1.54	2.81	0.89	3.53
Science	8	2.35	2.21	2.5	2.05		

Note: For mathematics, Subclaims 1, 2, 3, and 4 are Subclaims A, B, C, and D, respectively. For ELA and CSLA, Subclaims 1, 2, 3, 4, and 5 are RL, RI, RV, WE, and WKL, respectively. For ELA and CSLA, the subclaim 4 (WE) and Writing claim SEMs are based on weighted points. For Science, Subclaims 1, 2, 3, and 4 are Physical Science, Life Science, Earth Systems Science, and Scientific Investigations and the Nature of Science, respectively.

**Table 20. Accuracy and Consistency Estimates**

Content Area	Grade	Accuracy	Consistency	PChance	Kappa
MATH	3	0.72	0.62	0.21	0.53
	4	0.76	0.67	0.24	0.57
	5	0.76	0.66	0.23	0.56
	6	0.72	0.62	0.23	0.51
	7	0.74	0.64	0.27	0.51
	8	0.70	0.60	0.22	0.48
ELA	3	0.72	0.63	0.24	0.51
	4	0.71	0.61	0.27	0.47
	5	0.71	0.61	0.29	0.45
	6	0.72	0.62	0.26	0.48
	7	0.67	0.57	0.22	0.44
	8	0.70	0.60	0.24	0.47
CSLA	3	0.73	0.62	0.28	0.47
	4	0.73	0.64	0.28	0.50
Science	8	0.83	0.78	0.33	0.67

**Table 21. Accuracy of Cut Scores**

Content Area	Grade	Partially Met Expectations Cut	Approached Expectations Cut	Met Expectations Cut	Exceeded Expectations Cut
MATH	3	0.93	0.92	0.92	0.86
	4	0.94	0.91	0.92	0.97
	5	0.95	0.92	0.92	0.92
	6	0.93	0.90	0.92	0.96
	7	0.95	0.89	0.91	0.97
	8	0.91	0.89	0.91	0.95
ELA	3	0.93	0.91	0.91	0.95
	4	0.96	0.92	0.89	0.92
	5	0.96	0.90	0.88	0.94
	6	0.95	0.90	0.89	0.95
	7	0.94	0.90	0.89	0.85
	8	0.95	0.91	0.89	0.89
CSLA	3	0.90	0.89	0.94	0.99
	4	0.95	0.94	0.88	0.96
Science	8		0.94	0.94	0.99

**Table 22. Consistency of Cut Scores**

Content Area	Grade	Partially Met Expectations Cut	Approached Expectations Cut	Met Expectations Cut	Exceeded Expectations Cut
MATH	3	0.91	0.88	0.88	0.84
	4	0.91	0.88	0.89	0.97
	5	0.93	0.89	0.88	0.90
	6	0.90	0.86	0.89	0.95
	7	0.93	0.85	0.88	0.96
	8	0.87	0.85	0.88	0.94
ELA	3	0.90	0.87	0.87	0.94
	4	0.94	0.89	0.85	0.89
	5	0.94	0.87	0.84	0.93
	6	0.93	0.86	0.85	0.94
	7	0.92	0.86	0.85	0.82
	8	0.92	0.87	0.85	0.87
CSLA	3	0.86	0.85	0.92	0.98
	4	0.94	0.91	0.83	0.95
Science	8		0.92	0.92	0.99

**Table 23. Mathematics Grade 3 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	Corr
Item 1	3	605	94.5	5.2	0.3	0.97	0.00	0.97
Item 2	4	604	89.8	9.7	0.5	0.93	0.03	0.93
Item 3, Part B	2	534	97.3	2.7	0.0	0.97	0.01	0.97
Item 4, Part B	3	533	85.2	14.4	0.4	0.94	0.01	0.94
Item 5, Part C	4	534	96.3	2.5	1.2	0.96	0.01	0.96

**Table 24. Mathematics Grade 4 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	Corr
Item 1, Part D	3	4261	95.1	4.7	0.2	0.97	0.00	0.97
Item 2, Part B	3	4267	93.0	6.0	1.0	0.97	0.00	0.97
Item 3	3	4644	88.2	11.2	0.6	0.89	0.01	0.89
Item 4, Part A	2	4638	90.6	9.3	0.1	0.91	0.01	0.91
Item 4, Part B	2	4638	94.9	5.1	0.1	0.95	0.00	0.95
Item 5	3	4633	90.9	8.6	0.5	0.94	0.00	0.94

**Table 25. Mathematics Grade 5 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	Corr
Item 1, Part A	3	599	93.9	5.9	0.2	0.97	0.02	0.97
Item 1, Part B	3	599	94.9	4.4	0.7	0.97	0.02	0.97
Item 2	3	599	95.1	4.7	0.2	0.96	0.00	0.96
Item 3, Part B	3	539	95.5	4.5	0.0	0.95	0.02	0.95
Item 4	4	598	93.3	6.5	0.2	0.98	0.01	0.98
Item 5, Part B	2	599	97.8	2.2	0.0	0.98	0.00	0.98

**Table 26. Mathematics Grade 6 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	Corr
Item 1	4	4481	83.8	14.6	1.6	0.96	0.00	0.96
Item 2	3	4488	86.4	13.1	0.5	0.95	0.00	0.95
Item 3	3	4487	82.0	16.7	1.3	0.89	0.00	0.89
Item 4	4	4487	87.4	10.9	1.7	0.93	0.00	0.93
Item 5, Part A	3	4494	89.1	10.6	0.3	0.93	0.00	0.93
Item 5, Part B	3	4494	89.1	10.5	0.4	0.93	0.00	0.93

**Table 27. Mathematics Grade 7 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	Corr
Item 1, Part A	3	550	94.6	4.3	1.1	0.95	0.00	0.95
Item 1, Part B	3	550	93.5	5.4	1.1	0.96	0.02	0.96
Item 2	3	549	95.2	4.6	0.2	0.98	0.00	0.98
Item 3	4	554	89.5	8.8	1.7	0.96	0.00	0.96
Item 4, Part B	3	553	87.4	11.9	0.8	0.90	0.01	0.90
Item 5	3	553	84.8	14.3	0.9	0.81	0.02	0.81

**Table 28. Mathematics Grade 8 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	Corr
Item 1, Part A	4	3933	86.4	12.4	1.2	0.96	0.01	0.96
Item 1, Part B	2	3933	90.7	9.1	0.2	0.93	0.00	0.93
Item 2, Part B	3	3587	87.5	11.9	0.6	0.85	0.02	0.85
Item 3, Part B	2	3596	95.9	4.0	0.1	0.90	0.00	0.90
Item 4	4	3921	87.4	11.4	1.1	0.88	0.00	0.88
Item 5	3	3922	90.2	9.3	0.5	0.89	0.00	0.89

**Table 29. ELA Grade 3 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	Corr
PCR 1 WE	3	4536	86.5	13.5	0.0	0.87	0.04	0.87
PCR 1 WKL	3	4536	91.5	8.5	0.0	0.87	0.02	0.88
PCR 2 WE	3	4522	83.3	16.6	0.0	0.81	0.01	0.81
PCR 2 WKL	3	4522	83.3	16.6	0.0	0.81	0.01	0.81

**Table 30. ELA Grade 4 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	Corr
PCR 1 WE	3	576	85.3	14.5	0.2	0.89	0.00	0.89
PCR 1 WKL	3	576	86.5	13.5	0.0	0.89	0.02	0.89
PCR 2 WE	4	579	92.8	7.2	0.0	0.93	0.00	0.93
PCR 2 WKL	3	579	92.8	7.2	0.0	0.93	0.00	0.93

**Table 31. ELA Grade 5 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	4699	84.1	15.9	0.0	0.86	0.00	0.86
PCR 1 WKL	3	4699	85.6	14.4	0.0	0.88	0.01	0.88
PCR 2 WE	4	4701	83.6	16.4	0.0	0.81	0.00	0.81
PCR 2 WKL	3	4701	83.6	16.4	0.0	0.81	0.00	0.81

**Table 32. ELA Grade 6 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	542	82.6	16.9	0.6	0.83	0.03	0.83
PCR 1 WKL	3	542	82.6	16.9	0.6	0.83	0.03	0.83
PCR 2 WE	4	547	88.2	11.8	0.0	0.88	0.01	0.88
PCR 2 WKL	3	547	90.4	9.6	0.0	0.91	0.01	0.91

**Table 33. ELA Grade 7 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	4302	79.5	20.5	0.0	0.85	0.03	0.85
PCR 1 WKL	3	4302	79.5	20.5	0.0	0.85	0.03	0.85
PCR 2 WE	4	4297	80.1	19.8	0.1	0.89	0.01	0.89
PCR 2 WKL	3	4297	75.9	23.7	0.4	0.86	0.00	0.86

**Table 34. ELA Grade 8 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	448	82.4	17.6	0.0	0.91	0.03	0.91
PCR 1 WKL	3	448	82.8	16.0	1.1	0.90	0.01	0.90
PCR 2 WE	4	450	93.0	7.0	0.0	0.96	0.02	0.96
PCR 2 WKL	3	450	93.0	7.0	0.0	0.96	0.02	0.96

**Table 35. CSLA Grade 3 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	85	86.4	13.6	0.0	0.90	0.04	0.90
PCR 1 WKL	3	85	86.4	13.6	0.0	0.90	0.04	0.90
PCR 2 WE	3	85	91.0	7.7	1.3	0.93	0.05	0.93
PCR 2 WKL	3	85	83.3	14.1	2.6	0.90	0.04	0.90

**Table 36. CSLA Grade 4 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	10	100.0	0.0	0.0	1.00	0.00	1.00
PCR 1 WKL	3	10	100.0	0.0	0.0	1.00	0.00	1.00
PCR 2 WE	4	11	100.0	0.0	0.0	1.00	0.00	1.00
PCR 2 WKL	3	11	100.0	0.0	0.0	1.00	0.00	1.00

**Table 37. Science Grade 8 Operational Rater Agreement Statistics**

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
1	2	3,788	91.9	8.0	0.1	0.95	0.01	0.95
2	2	3,788	92.5	7.5	0.0	0.94	0.01	0.94
3	2	3,551	91.8	8.2	0.0	0.95	0.00	0.95
4	2	3,551	91.4	8.6	0.0	0.87	0.00	0.87
5	2	3,551	98.4	1.6	0.0	0.99	0.00	0.99
6	2	3,551	92.7	7.3	0.0	0.90	0.00	0.90
7	2	3,551	96.2	3.8	0.0	0.96	0.00	0.96
8	2	3,550	92.6	7.4	0.0	0.91	0.00	0.91
9	2	3,788	89.6	9.2	1.2	0.86	0.02	0.86
10	3	3,788	89.9	10.0	0.1	0.97	0.00	0.97
11	3	3,788	88.3	11.7	0.1	0.95	0.01	0.95
12	2	3,788	93.8	6.0	0.2	0.96	0.00	0.96
13	3	3,788	83.7	15.6	0.7	0.79	0.02	0.80
14	2	3,551	89.8	10.2	0.0	0.93	0.01	0.93
15	2	3,549	89.8	10.1	0.1	0.90	0.00	0.90
16	2	3,550	89.7	10.0	0.3	0.87	0.00	0.87
17	2	3,551	90.6	9.0	0.4	0.93	0.01	0.93

**Table 38. Mathematics N-Count by Form**

Form	Grade					
	3	4	5	6	7	8
Online	4,461	34,762	4,597	37,458	4,700	33,509
Spanish Online	36	521	8	110	3	111
Paper	601	3,710	576	3,669	479	3,319
Spanish Paper	1	47	2	3	0	7
Text-to-Speech	843	7,739	752	3,567	327	2,252
Assistive Technology	0	4	0	12	1	7
<b>Total</b>	5,942	46,783	5,935	44,819	5,510	39,205

**Table 39. ELA and CSLA N-Count by Form**

Content Area	Form	Grade					
		3	4	5	6	7	8
ELA	Online	41,282	5,201	43,383	4,835	39,652	4,099
	Paper	3,855	517	3,405	596	3,168	351
	Text-to-Speech	44	4	116	7	99	12
	Assistive Technology	10	3	13	1	15	1
<b>Total</b>		45,191	5,725	46,917	5,439	42,934	4,463
CSLA	<b>Total</b>	837	53				

**Table 40. Science N-Count by Form**

Form	Grade
	8
Online	34,506
Spanish Online	101
Paper	2,344
Spanish Paper	7
Large Print	1
Braille	2
<b>Total</b>	<b>36,961</b>

**Table 41. Mathematics Demographic Distributions**

Subgroup	Grade					
	3	4	5	6	7	8
No IEP	5,304	41,058	5,292	39,672	4,940	35,234
IEP	638	5,725	643	5,147	570	3,971
No Accommodation	4,950	37,170	5,006	39,265	4,937	35,063
Accommodation	992	9,613	929	5,554	573	4,142
Am. Indian/Alaska Native	33	267	38	244	37	213
Asian	250	1,516	231	1,364	212	1,220
Black	119	1,749	161	1,626	124	1,296
Hispanic	1,442	15,294	1,566	15,411	1,398	13,683
White	3,793	25,549	3,680	24,131	3,514	21,083
Hawaiian/Pacific Islander	n/a	128	n/a	94	n/a	93
Two or More Races	295	2,271	249	1,946	218	1,612
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	1,937	16,423	1,979	15,710	1,481	13,108
Economic Disadvantage	4,005	30,360	3,956	29,109	4,029	26,097
Female	2,821	22,790	2,908	21,536	2,671	18,335
Male	3,121	23,993	3,027	23,283	2,839	20,870
Language Proficiency NA	5,298	38,469	5,192	36,449	4,869	32,773
Language Proficiency NEP	96	1,125	53	549	33	661
Language Proficiency LEP	414	5,038	338	3,409	249	2,653
Language Proficiency FEP	134	2,151	352	4,412	359	3,118
Not Migrant	5,922	46,573	5,907	44,600	5,493	39,012
Migrant	20	210	28	219	17	193

\*n-count less than 16

**Table 42. ELA Demographic Distributions**

Subgroup	Grade					
	3	4	5	6	7	8
No IEP	40,174	5,116	41,316	4,851	38,230	4,014
IEP	5,017	609	5,601	588	4,704	449
No Accommodation	42,177	5,299	42,967	5,066	39,318	4,149
Accommodation	3,014	426	3,950	373	3,616	314
Am. Indian/Alaska Native	273	47	272	32	243	26
Asian	1,459	233	1,391	188	1,292	143
Black	1,713	163	1,792	114	1,537	73
Hispanic	14,028	1,468	15,781	1,393	14,731	1,175
White	25,355	3,524	25,364	3,471	23,194	2,848
Hawaiian/Pacific* Islander	118	n/a	105	n/a	94	n/a
Two or More Races	2,233	277	2,201	227	1,837	189
Missing*	n/a	0	n/a	0	n/a	0
No Economic Disadvantage	29,341	3,890	30,079	3,936	28,227	3,260
Economic Disadvantage	15,850	1,835	16,838	1,503	14,707	1,203
Female	21,842	2,872	22,911	2,613	20,305	2,156
Male	23,349	2,853	24,006	2,826	22,629	2,307
Language Proficiency NA	38,219	5,024	38,332	4,829	35,127	4,021
Language Proficiency NEP	1,149	54	624	31	593	33
Language Proficiency LEP	4,804	418	4,339	290	3,087	189
Language Proficiency FEP	1,019	229	3,622	289	4,127	220
Not Migrant	45,000	5,708	46,693	5,420	42,738	4,446
Migrant	191	17	224	19	196	17

\*n-count less than 16

**Table 43. CSLA Demographic Distributions**

Subgroup	Grade	
	3	4
No IEP	772	50
IEP*	65	n/a
No Accommodation	0	0
Accommodation	837	53
Am. Indian/Alaska Native*	n/a	n/a
Asian		
Black		
Hispanic	831	53
White*	n/a	n/a
Hawaiian/Pacific Islander		
Two or More Races		
Missing		
No Economic Disadvantage*	245	n/a
Economic Disadvantage	592	42
Female	395	32
Male	442	21
Language Proficiency NA		
Language Proficiency NEP*	289	n/a
Language Proficiency LEP	548	46
Language Proficiency FEP		
Not Migrant	831	53
Migrant*	n/a	n/a

\*n-count less than 16

**Table 44. Science Demographic Distributions**

Subgroup	Grade
	8
No IEP	33,238
IEP	3,723
No Accommodation	33,676
Accommodation	3,285
Am. Indian/Alaska Native	205
Asian	1,150
Black	1,164
Hispanic	12,952
White	19,882
Hawaiian/Pacific Islander	92
Two or More Races	1,511
Missing*	n/a
No Economic Disadvantage	20,809
Economic Disadvantage	12,295
Female	17,241
Male	19,720
Language Proficiency NA	28,696
Language Proficiency NEP	625
Language Proficiency LEP	2,479
Language Proficiency FEP	2,972
Not Migrant	36,773
Migrant	188

\*n-count less than 16

**Table 45. Mathematics Grade 3 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	XI	GPC	0.464	0.388	0	0.855	0.583	-1.438			
2	XI	GPC	0.455	1.709	0	2.715	0.282	-0.534	-2.463		
3	XI	GPC	0.708	0.955	0	1.543	-1.543				
4	XI	GPC	0.932	0.252	0	0.509	-0.509				
5	XI	GPC	0.423	-0.109	0	1.089	-1.089				
6	XI	GPC	0.694	0.156	0	1.332	-1.164	-0.168			
7	XI	GPC	0.428	0.690	0	1.361	-0.803	0.395	-0.953		
8	XI	GPC	0.644	0.619	0	2.276	0.798	-0.716	0.402	-2.250	-0.510
9	XI	2PL	0.612	-1.369							
10	XI	2PL	0.994	-0.978							
11	XI	2PL	0.893	0.092							
12	XI	2PL	1.124	0.203							
13	XI	2PL	0.787	0.145							
14	XI	2PL	0.471	-0.130							
15	XI	2PL	0.689	-0.840							
16	XI	2PL	0.601	1.206							
17	XI	2PL	0.415	-2.233							
18	XI	2PL	0.981	0.145							
19	XI	2PL	0.616	1.283							
20	XI	2PL	0.628	-0.824							
21	XI	2PL	1.117	-0.256							
22	XI	2PL	1.094	0.161							
23	XI	2PL	1.104	-0.483							
24	SR	2PL	0.696	-1.703							
25	SR	2PL	0.914	-1.309							
26	SR	2PL	0.509	-0.236							
27	SR	2PL	0.838	-1.325							
28	SR	2PL	0.629	-0.240							
29	SR	2PL	0.791	-1.646							
30	SR	2PL	0.463	0.032							
31	SR	2PL	0.859	-0.887							
32	SR	2PL	0.586	-1.999							
33	SR	2PL	0.880	-0.378							

**Table 46. Mathematics Grade 4 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	XI	GPC	0.394	1.395	0	1.287	-0.497	-0.790			
2	XI	GPC	0.706	0.939	0	0.471	-0.403	-0.068			
3	XI	GPC	0.801	0.573	0	-0.218	0.218				
4	XI	GPC	0.869	-0.150	0	0.520	-0.520				
5	XI	GPC	0.404	-0.335	0	0.751	-0.751				
6	XI	GPC	0.484	1.002	0	1.237	-1.237				
7	XI	GPC	0.544	0.687	0	0.973	-0.973				
8	XI	GPC	0.708	-0.712	0	0.377	-0.377				
9	XI	GPC	0.444	0.083	0	0.923	-2.323	1.014	0.386		
10	XI	GPC	0.733	0.550	0	0.385	0.442	-0.209	-0.618		
11	XI	GPC	0.703	0.341	0	1.800	0.956	0.206	-0.354	-0.806	-1.802
12	XI	2PL	0.970	0.978							
13	XI	2PL	0.868	0.078							
14	XI	2PL	1.111	0.853							
15	XI	2PL	1.317	1.064							
16	XI	2PL	0.533	-0.769							
17	XI	2PL	0.801	0.111							
18	XI	2PL	1.267	0.354							
19	XI	2PL	0.986	-0.612							
20	XI	2PL	0.450	0.267							
21	XI	2PL	0.803	-0.693							
22	XI	2PL	0.926	0.108							
23	XI	2PL	0.953	-0.131							
24	SR	2PL	0.575	0.294							
25	SR	2PL	0.779	-0.900							
26	SR	2PL	0.820	-1.142							
27	SR	2PL	1.271	-1.046							
28	SR	2PL	0.693	0.123							
29	SR	2PL	0.823	-1.600							
30	SR	2PL	0.903	-0.155							

**Table 47. Mathematics Grade 5 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	CR	GPC	0.723	1.373	0	0.934	-0.034	-0.900			
2	CR	GPC	0.493	1.032	0	-0.185	0.760	-0.528	-0.047		
3	CR	GPC	0.851	-0.385	0	0.344	-0.344				
4	XI	GPC	0.580	0.365	0	0.493	-0.493				
5	XI	GPC	0.580	-0.339	0	0.579	-0.579				
6	XI	GPC	0.971	0.232	0	0.395	-0.395				
7	XI	GPC	0.978	-0.056	0	0.373	-0.373				
8	XI	GPC	0.640	0.842	0	0.122	-0.122				
9	XI	GPC	0.709	0.794	0	0.742	-0.397	-0.345			
10	XI	GPC	0.803	1.135	0	1.249	0.101	-0.197	-1.153		
11	XI	GPC	0.522	1.362	0	-0.624	2.848	-1.030	-0.368	0.034	-0.860
12	XI	2PL	0.796	-0.304							
13	XI	2PL	0.501	1.021							
14	XI	2PL	0.676	-1.277							
15	XI	2PL	0.876	0.233							
16	XI	2PL	1.064	0.261							
17	XI	2PL	0.508	-2.591							
18	XI	2PL	0.925	-0.211							
19	XI	2PL	0.740	0.580							
20	XI	2PL	0.627	-0.097							
21	SR	2PL	0.616	0.767							
22	SR	2PL	1.049	-0.923							
23	SR	2PL	0.421	-1.819							
24	SR	2PL	0.849	-0.812							
25	SR	2PL	0.524	-1.030							
26	SR	2PL	0.488	1.259							
27	SR	2PL	1.054	-0.969							
28	SR	2PL	0.642	-0.344							
29	SR	2PL	0.538	0.037							
30	SR	2PL	0.659	0.150							

**Table 48. Mathematics Grade 6 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	CR	GPC	0.722	-0.077	0	0.285	0.667	-0.951			
2	CR	GPC	0.575	0.623	0	0.172	0.820	-0.991			
3	CR	GPC	0.567	0.438	0	0.132	0.751	1.016	-1.899		
4	CR	GPC	0.525	1.069	0	-0.553	1.468	-0.739	-0.176		
5	XI	GPC	0.387	0.254	0	1.205	-1.205				
6	XI	GPC	0.680	-0.639	0	0.658	-0.658				
7	XI	GPC	1.206	0.699	0	0.314	-0.314				
8	XI	GPC	0.506	0.048	0	0.746	-0.746				
9	XI	GPC	0.478	0.399	0	1.487	0.225	-0.720	-0.991		
10	XI	GPC	0.506	0.840	0	0.887	0.660	0.029	-0.559	-0.109	-0.908
11	XI	2PL	0.421	1.660							
12	XI	2PL	0.839	-0.746							
13	XI	2PL	0.704	1.295							
14	XI	2PL	0.562	-0.882							
15	XI	2PL	0.762	2.042							
16	XI	2PL	0.585	1.713							
17	XI	2PL	0.719	0.425							
18	XI	2PL	0.796	0.552							
19	XI	2PL	0.862	0.367							
20	XI	2PL	0.884	0.733							
21	XI	2PL	1.034	0.466							
22	SR	2PL	1.164	0.535							
23	SR	2PL	0.664	-0.350							
24	SR	2PL	0.468	0.551							
25	SR	2PL	0.206	1.078							
26	SR	2PL	0.705	0.669							
27	SR	2PL	0.638	0.515							
28	SR	2PL	0.863	0.511							

**Table 49. Mathematics Grade 7 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	CR	GPC	0.694	0.826	0	0.156	0.375	-0.531			
2	CR	GPC	0.814	1.552	0	1.102	-0.018	-1.084			
3	CR	GPC	0.575	0.889	0	0.216	-0.505	0.244	0.046		
4	XI	GPC	0.366	1.963	0	-1.175	1.175				
5	XI	GPC	0.981	1.184	0	0.210	-0.210				
6	XI	GPC	0.372	0.681	0	0.657	-0.657				
7	XI	GPC	1.012	1.598	0	0.487	-0.487				
8	XI	GPC	0.513	1.159	0	1.552	0.084	-0.600	-1.036		
9	XI	GPC	0.518	1.033	0	1.425	0.216	-0.434	-1.207		
10	XI	GPC	0.598	0.804	0	1.420	-0.054	0.491	0.017	-0.703	-1.171
11	XI	2PL	1.031	-0.114							
12	XI	2PL	0.750	1.275							
13	XI	2PL	0.842	-0.047							
14	XI	2PL	0.964	1.280							
15	XI	2PL	1.184	1.420							
16	XI	2PL	0.534	0.838							
17	XI	2PL	1.450	0.869							
18	XI	2PL	0.399	0.027							
19	XI	2PL	1.041	-0.780							
20	XI	2PL	0.558	0.121							
21	SR	2PL	0.555	1.625							
22	SR	2PL	0.454	-0.962							
23	SR	2PL	0.279	1.924							
24	SR	2PL	0.654	1.069							
25	SR	2PL	0.826	0.791							
26	SR	2PL	0.252	0.674							
27	SR	2PL	0.596	-0.242							
28	SR	2PL	0.366	1.908							
29	SR	2PL	0.669	-0.652							

**Table 50. Mathematics Grade 8 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	CR	GPC	0.650	2.423	0	0.236	0.249	-0.485			
2	CR	GPC	0.694	2.260	0	0.382	0.487	0.306	-1.174		
3	CR	GPC	0.392	0.297	0	0.973	-0.973				
4	XI	GPC	0.712	0.753	0	0.766	-0.766				
5	XI	GPC	0.369	1.800	0	1.633	-1.633				
6	XI	GPC	0.559	0.837	0	0.362	-0.362				
7	XI	GPC	0.494	0.311	0	0.728	-0.728				
8	XI	GPC	0.898	1.680	0	0.936	-0.290	-0.647			
9	XI	GPC	0.397	0.754	0	1.167	-0.541	-0.149	-0.477		
10	XI	GPC	0.717	1.605	0	1.717	0.057	-0.243	-1.531		
11	XI	GPC	0.404	0.745	0	-0.427	1.777	0.595	-0.268	-0.439	-1.238
12	XI	2PL	1.174	0.325							
13	XI	2PL	1.336	1.477							
14	XI	2PL	1.202	1.799							
15	XI	2PL	0.674	1.114							
16	XI	2PL	1.237	-0.975							
17	XI	2PL	0.907	0.967							
18	SR	2PL	0.321	0.916							
19	SR	2PL	0.770	0.281							
20	SR	2PL	0.529	1.042							
21	SR	2PL	0.495	1.344							
22	SR	2PL	0.680	-1.703							
23	SR	2PL	0.633	-1.005							
24	SR	2PL	0.518	1.671							
25	SR	2PL	0.700	0.983							
26	SR	2PL	0.358	-0.129							
27	SR	2PL	0.314	-0.184							
28	SR	2PL	0.469	-0.360							

**Table 51. ELA Grade 3 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	Misfit Flag
PCR 1 WE	CR	GPC	0.806	1.892	0	2.038	-0.294	-1.744	No
PCR 1 WKL	CR	GPC	0.697	1.962	0	1.725	0.185	-1.910	No
PCR 2 WE	CR	GPC	1.188	1.574	0	1.727	-0.225	-1.502	Yes
PCR 2 WKL	CR	GPC	0.859	1.799	0	1.837	-0.308	-1.529	No
5	XI	GPC	0.333	1.805	0	-0.565	0.565		Yes
6	XI	GPC	0.320	0.827	0	-0.162	0.162		No
7	XI	GPC	0.218	1.878	0	-0.193	0.193		No
8	XI	GPC	0.531	-0.272	0	0.750	-0.750		No
9	XI	GPC	0.594	0.375	0	0.810	-0.810		Yes
10	XI	GPC	0.622	-1.220	0	-2.810	2.810		Yes
11	XI	GPC	0.580	-0.493	0	-1.500	1.500		Yes
12	XI	GPC	0.567	-0.677	0	0.194	-0.194		Yes
13	XI	GPC	0.463	0.388	0	-0.517	0.517		No
14	XI	GPC	0.608	-0.902	0	0.590	-0.590		No
15	XI	GPC	0.560	0.779	0	1.174	-1.174		Yes
16	XI	GPC	0.417	0.081	0	-1.039	1.039		Yes
17	XI	GPC	0.563	0.332	0	0.236	-0.236		Yes
18	XI	GPC	0.566	0.549	0	0.114	-0.114		Yes
19	XI	GPC	0.591	-0.551	0	-0.223	0.223		No
20	XI	GPC	0.551	0.085	0	-1.533	1.533		Yes
21	XI	GPC	0.414	-0.139	0	-0.755	0.755		Yes
22	XI	GPC	0.534	0.701	0	-2.082	2.082		Yes
23	XI	GPC	0.854	0.167	0	-0.103	0.103		No

**Table 52. ELA Grade 4 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5
PCR 1 WE	CR	GPC	0.680	1.279	0	1.329	-0.175	-1.153	
PCR 1 WKL	CR	GPC	0.736	1.248	0	1.398	-0.109	-1.289	
PCR 2 WE	CR	GPC	0.670	1.633	0	2.550	0.340	-0.956	-1.935
PCR 2 WKL	CR	GPC	0.629	1.036	0	1.660	-0.174	-1.486	
5	XI	GPC	0.310	-0.731	0	-0.910	0.910		
6	XI	GPC	0.255	1.680	0	0.427	-0.427		
7	XI	GPC	0.421	-0.059	0	-0.164	0.164		
8	XI	GPC	0.430	-0.186	0	0.083	-0.083		
9	XI	GPC	0.512	0.142	0	1.484	-1.484		
10	XI	GPC	0.561	-1.148	0	-1.597	1.597		
11	XI	GPC	0.251	1.545	0	-0.157	0.157		
12	XI	GPC	0.986	-0.409	0	0.727	-0.727		
13	XI	GPC	0.605	-0.011	0	0.217	-0.217		
14	XI	GPC	0.201	2.064	0	-3.301	3.301		
15	XI	GPC	0.712	0.143	0	0.613	-0.613		
16	XI	GPC	0.334	0.286	0	0.185	-0.185		
17	XI	GPC	0.570	-1.136	0	0.632	-0.632		
18	XI	GPC	0.515	0.507	0	-2.785	2.785		
19	XI	GPC	0.215	2.363	0	-0.041	0.041		
20	XI	GPC	0.466	0.377	0	-1.807	1.807		
21	XI	GPC	0.523	-0.329	0	0.092	-0.092		
22	XI	GPC	0.356	-0.679	0	-0.363	0.363		
23	XI	GPC	0.330	-1.054	0	-3.780	3.780		
24	XI	GPC	0.868	0.151	0	0.110	-0.110		
25	XI	GPC	0.929	-0.518	0	0.557	-0.557		

**Table 53. ELA Grade 5 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	Misfit Flag
PCR 1 WE	CR	GPC	0.860	1.331	0	1.148	-0.140	-1.008		Yes
PCR 1 WKL	CR	GPC	0.848	1.452	0	0.944	0.043	-0.987		No
PCR 2 WE	CR	GPC	0.693	2.257	0	2.366	-0.027	-1.128	-1.211	No
PCR 2 WKL	CR	GPC	0.820	1.699	0	1.860	-0.701	-1.158		No
5	XI	GPC	0.334	0.575	0	-1.371	1.371			Yes
6	XI	GPC	0.614	0.995	0	0.615	-0.615			No
7	XI	GPC	0.268	0.654	0	-2.514	2.514			Yes
8	XI	GPC	0.271	1.215	0	-2.565	2.565			Yes
9	XI	GPC	0.251	1.300	0	1.238	-1.238			Yes
10	XI	GPC	0.188	-0.488	0	-2.208	2.208			No
11	XI	GPC	0.462	0.054	0	2.018	-2.018			Yes
12	XI	GPC	0.431	0.962	0	-0.513	0.513			Yes
13	XI	GPC	0.349	1.348	0	-1.580	1.580			Yes
14	XI	GPC	0.283	1.874	0	-1.460	1.460			No
15	XI	GPC	0.405	0.323	0	0.761	-0.761			No
16	XI	GPC	0.374	0.760	0	0.013	-0.013			No
17	XI	GPC	0.520	0.604	0	0.846	-0.846			No
18	XI	GPC	0.734	-0.745	0	-0.260	0.260			Yes
19	XI	GPC	0.592	0.328	0	0.743	-0.743			No
20	XI	GPC	0.414	0.496	0	-1.827	1.827			Yes
21	XI	GPC	0.492	-0.265	0	1.195	-1.195			No
22	XI	GPC	0.240	-1.332	0	2.043	-2.043			No
23	XI	GPC	0.553	-0.095	0	0.572	-0.572			Yes
24	XI	GPC	0.444	0.092	0	-1.207	1.207			Yes

**Table 54. ELA Grade 6 Operational Item Parameter Estimates**

<b>Item</b>	<b>Item Type</b>	<b>Model</b>	<b>A</b>	<b>B</b>	<b>D1</b>	<b>D2</b>	<b>D3</b>	<b>D4</b>	<b>D5</b>
PCR 1 WE	CR	GPC	0.829	1.698	0	2.485	0.382	-0.967	-1.900
PCR 1 WKL	CR	GPC	0.896	1.005	0	1.751	-0.091	-1.660	
PCR 2 WE	CR	GPC	0.867	1.807	0	1.713	0.129	-0.656	-1.187
PCR 2 WKL	CR	GPC	0.852	1.341	0	1.314	-0.249	-1.064	
5	XI	GPC	0.270	1.451	0	-1.631	1.631		
6	XI	GPC	0.328	0.185	0	-2.077	2.077		
7	XI	GPC	0.350	0.994	0	-0.714	0.714		
8	XI	GPC	0.536	-1.104	0	0.322	-0.322		
9	XI	GPC	0.297	1.740	0	1.263	-1.263		
10	XI	GPC	0.549	-0.629	0	-1.341	1.341		
11	XI	GPC	0.325	1.238	0	-0.122	0.122		
12	XI	GPC	0.242	-0.327	0	-4.508	4.508		
13	XI	GPC	0.371	0.938	0	0.998	-0.998		
14	XI	GPC	0.406	-0.081	0	1.533	-1.533		
15	XI	GPC	0.570	-0.142	0	0.886	-0.886		
16	XI	GPC	0.351	0.500	0	0.342	-0.342		
17	XI	GPC	0.534	1.124	0	-0.059	0.059		
18	XI	GPC	0.445	-0.534	0	-1.232	1.232		
19	XI	GPC	0.444	0.145	0	-1.140	1.140		
20	XI	GPC	0.663	-0.093	0	0.210	-0.210		
21	XI	GPC	0.378	0.216	0	-1.528	1.528		
22	XI	GPC	0.529	0.108	0	-0.825	0.825		
23	XI	GPC	0.354	-0.849	0	-0.812	0.812		
24	XI	GPC	0.265	-0.245	0	1.597	-1.597		
25	XI	GPC	0.269	0.263	0	-2.576	2.576		
26	XI	GPC	0.204	0.873	0	-2.239	2.239		

**Table 55. ELA Grade 7 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	Misfit Flag
PCR 1 WE	CR	GPC	1.048	1.589	0	1.718	0.321	-0.649	-1.390	Yes
PCR 1 WKL	CR	GPC	1.049	1.161	0	1.535	-0.252	-1.283		Yes
PCR 2 WE	CR	GPC	0.766	1.234	0	1.994	0.514	-0.724	-1.783	Yes
PCR 2 WKL	CR	GPC	0.830	0.638	0	1.063	0.093	-1.155		No
5	XI	GPC	0.422	-0.492	0	-0.564	0.564			Yes
6	XI	GPC	0.303	1.213	0	-0.592	0.592			Yes
7	XI	GPC	0.469	0.810	0	-0.625	0.625			Yes
8	XI	GPC	0.615	0.472	0	1.410	-1.410			No
9	XI	GPC	0.415	0.283	0	-0.971	0.971			Yes
10	XI	GPC	0.434	0.716	0	2.375	-2.375			No
11	XI	GPC	0.734	-0.188	0	0.427	-0.427			No
12	XI	GPC	0.608	-0.633	0	-1.168	1.168			Yes
13	XI	GPC	0.314	0.986	0	-0.684	0.684			Yes
14	XI	GPC	0.737	0.211	0	1.178	-1.178			No
15	XI	GPC	0.272	0.384	0	-0.646	0.646			No
16	XI	GPC	0.358	-0.336	0	-0.755	0.755			No
17	XI	GPC	0.254	-0.873	0	-3.606	3.606			Yes
18	XI	GPC	0.522	-0.867	0	1.248	-1.248			No
19	XI	GPC	0.215	0.119	0	-4.689	4.689			Yes
20	XI	GPC	0.549	0.436	0	1.117	-1.117			No
21	XI	GPC	0.455	-1.735	0	-0.560	0.560			No
22	XI	GPC	0.192	1.827	0	0.096	-0.096			No
23	XI	GPC	0.173	2.674	0	-0.685	0.685			Yes
24	XI	GPC	0.395	0.550	0	-0.580	0.580			Yes
25	XI	GPC	0.353	0.269	0	1.936	-1.936			No
26	XI	GPC	0.350	1.537	0	0.679	-0.679			No
27	XI	GPC	0.317	1.256	0	-0.897	0.897			Yes

**Table 56. ELA Grade 8 Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5
PCR 1 WE	CR	GPC	0.734	0.803	0	1.421	0.590	-0.609	-1.402
PCR 1 WKL	CR	GPC	0.805	0.266	0	0.945	0.123	-1.068	
PCR 2 WE	CR	GPC	0.705	0.886	0	1.506	0.715	-0.752	-1.469
PCR 2 WKL	CR	GPC	0.780	0.365	0	0.957	0.121	-1.078	
5	XI	GPC	0.948	-0.233	0	0.799	-0.799		
6	XI	GPC	0.464	-0.085	0	-0.325	0.325		
7	XI	GPC	0.370	0.345	0	0.316	-0.316		
8	XI	GPC	0.467	0.465	0	1.382	-1.382		
9	XI	GPC	0.373	0.562	0	-1.714	1.714		
10	XI	GPC	0.276	1.439	0	-1.936	1.936		
11	XI	GPC	0.457	0.463	0	0.945	-0.945		
12	XI	GPC	0.505	-1.117	0	1.637	-1.637		
13	XI	GPC	0.485	0.151	0	-1.009	1.009		
14	XI	GPC	0.301	0.959	0	-3.388	3.388		
15	XI	GPC	0.399	-0.159	0	-0.201	0.201		
16	XI	GPC	0.300	2.882	0	2.413	-2.413		
17	XI	GPC	0.321	0.321	0	-3.286	3.286		
18	XI	GPC	0.465	-0.806	0	1.348	-1.348		
19	XI	GPC	0.290	0.114	0	-1.488	1.488		
20	XI	GPC	0.247	1.225	0	-5.939	5.939		
21	XI	GPC	0.364	0.836	0	-3.283	3.283		
22	XI	GPC	0.738	-0.581	0	1.122	-1.122		
23	XI	GPC	0.256	1.601	0	-0.698	0.698		
24	XI	GPC	0.480	-0.133	0	-1.326	1.326		
25	XI	GPC	0.316	-0.353	0	-0.505	0.505		
26	XI	GPC	0.551	-0.604	0	-1.290	1.290		
27	XI	GPC	0.222	1.174	0	-5.430	5.430		

**Table 57. CSLA Grade 3 Operational Item Parameter Estimates**

Item	Item Type	Model	B	D1	D2	D3	D4
1	SR	RPCM	-0.7121	0	1.4121	-1.4121	
2	SR	RPCM	0.1525	0	-0.7696	0.7696	
3	SR	RPCM	-0.5164	0	0.7692	-0.7692	
4	SR	RPCM	0.3508	0	1.0613	-1.0613	
5	SR	RPCM	-0.364	0	0.3838	-0.3838	
6	SR	RPCM	0.2376	0	0.4636	-0.4636	
7	SR	RPCM	0.6704	0	1.3082	-1.3082	
8	SR	RPCM	0.4992	0	0.5268	-0.5268	
9	SR	RPCM	0.1711	0	-0.0085	0.0085	
10	SR	RPCM	0.8326	0	-0.0031	0.0031	
11	SR	RPCM	-0.4247	0	0.2344	-0.2344	
12	SR	RPCM	-0.1695	0	0.4885	-0.4885	
13	SR	RPCM	-0.3637	0	0.1734	-0.1734	
14	SR	RPCM	-0.3872	0	0.756	-0.756	
15	SR	RPCM	0.0334	0	0.5414	-0.5414	
16	SR	RPCM	0.2214	0	-0.9959	0.9959	
17	SR	RPCM	-0.1386	0	1.0467	-1.0467	
18	SR	RPCM	-0.3212	0	0.3802	-0.3802	
PCR 1 WE	CR	RPCM	0.1656	0	-1.0893	-0.3575	1.4468
PCR 1 WKL	CR	RPCM	-0.3613	0	-0.5366	0.8603	-0.3237
PCR 2 WE	CR	RPCM	0.2176	0	-0.1679	-0.4521	0.62
PCR 2 WKL	CR	RPCM	-0.4087	0	-0.4257	0.5956	-0.1699

**Table 58. CSLA Grade 4 Operational Item Parameter Estimates**

Item	Item Type	Model	B	D1	D2	D3	D4	D5
1	SR	RPCM	0.4814	0	-0.1194	0.1194		
2	SR	RPCM	0.3642	0	0.5686	-0.5686		
3	SR	RPCM	0.2843	0	0.3436	-0.3436		
4	SR	RPCM	0.3681	0	0.6672	-0.6672		
5	SR	RPCM	-0.8705	0	0.4479	-0.4479		
6	SR	RPCM	-1.2829	0	0.7878	-0.7878		
7	SR	RPCM	-1.0263	0	0.4303	-0.4303		
8	SR	RPCM	-0.9236	0	0.2336	-0.2336		
9	SR	RPCM	-0.2946	0	1.0307	-1.0307		
10	SR	RPCM	-0.4003	0	0.3668	-0.3668		
11	SR	RPCM	-0.3465	0	-0.7149	0.7149		
12	SR	RPCM	-0.3215	0	1.0046	-1.0046		
13	SR	RPCM	0.1249	0	1.2306	-1.2306		
14	SR	RPCM	0.7695	0	0.2747	-0.2747		
15	SR	RPCM	1.5186	0	-0.9698	0.9698		
16	SR	RPCM	0.078	0	1.2504	-1.2504		
17	SR	RPCM	0.5763	0	0.1363	-0.1363		
18	SR	RPCM	-0.3592	0	0.1656	-0.1656		
19	SR	RPCM	0.0731	0	0.7711	-0.7711		
20	SR	RPCM	-0.5376	0	0.7842	-0.7842		
21	SR	RPCM	0.2028	0	0.4053	-0.4053		
PCR 1 WE	CR	RPCM	0.2374	0	-0.7116	-0.9104	-0.0056	1.6276
PCR 1 WKL	CR	RPCM	-0.7427	0	-0.4271	0.5669	-0.1398	
PCR 2 WE	CR	RPCM	0.6911	0	-0.6477	-0.483	1.1307	
PCR 2 WKL	CR	RPCM	-0.7911	0	-1.0217	1.2195	-0.1978	

**Table 59. Grade 8 Science Operational Item Parameter Estimates**

Item	Item Type	Model	A	B	C	D1	D2	D3	D4
1	CR	GPC	1.003	0.115		0.000	-0.328	0.328	
2	CR	GPC	1.219	0.243		0.000	0.285	-0.285	
3	CR	GPC	0.847	-0.455		0.000	-0.550	0.550	
4	CR	GPC	0.982	1.299		0.000	1.218	-1.218	
5	CR	GPC	0.953	-0.871		0.000	-1.644	1.644	
6	CR	GPC	0.722	1.443		0.000	-0.461	0.461	
7	CR	GPC	1.000	0.863		0.000	0.201	-0.201	
8	CR	GPC	1.075	1.298		0.000	0.070	-0.070	
9	CR	GPC	0.948	0.313		0.000	0.930	-0.930	
10	CR	GPC	0.805	0.072		0.000	-0.344	0.344	
11	CR	GPC	1.250	0.228		0.000	0.014	-0.014	
12	CR	GPC	1.247	0.791		0.000	0.541	-0.541	
13	CR	GPC	1.410	0.829		0.000	0.325	-0.325	
14	CR	GPC	1.176	0.089		0.000	-0.261	0.261	
15	CR	GPC	1.054	0.189		0.000	-0.690	0.163	0.527
16	CR	GPC	1.133	0.613		0.000	-0.114	0.454	-0.341
17	CR	GPC	1.051	1.487		0.000	1.312	-0.340	-0.972
18	SR	3PL	1.119	0.878	0.071				
19	SR	3PL	1.070	0.656	0.123				
20	SR	3PL	0.938	1.173	0.275				
21	SR	3PL	1.281	0.394	0.099				
22	SR	3PL	0.550	-0.264	0.010				
23	SR	3PL	1.364	0.831	0.137				
24	SR	3PL	1.100	0.395	0.250				
25	SR	3PL	0.875	0.655	0.125				
26	SR	3PL	0.618	1.804	0.042				
27	SR	3PL	0.929	0.255	0.345				
28	SR	3PL	0.917	-2.533	0.072				
29	SR	3PL	0.706	0.305	0.029				
30	SR	3PL	1.350	-0.009	0.143				

**Table 60. Grade 8 Science Operational Item Parameter Estimates (continued)**

Item	Item Type	Model	A	B	C	D1	D2	D3	D4
31	SR	3PL	1.156	-1.095	0.195				
32	SR	3PL	1.284	0.888	0.110				
33	SR	3PL	1.268	-0.469	0.080				
34	SR	3PL	1.095	0.101	0.076				
35	SR	3PL	0.671	-0.922	0.000				
36	SR	3PL	0.784	-0.119	0.012				
37	SR	3PL	1.218	1.270	0.260				
38	SR	3PL	1.221	0.655	0.171				
39	SR	3PL	1.268	-0.171	0.202				
40	SR	3PL	0.818	0.918	0.198				
41	SR	3PL	1.474	-0.280	0.157				
42	XI	2PL	1.030	0.306					
43	XI	2PL	1.308	1.175					
44	XI	2PL	0.721	2.027					
45	XI	2PL	0.737	2.249					
46	XI	3PL	0.618	-0.703	0.029				
47	XI	3PL	1.450	1.569	0.147				
48	XI	3PL	0.937	0.995	0.051				
49	XI	3PL	1.432	0.926	0.064				
50	XI	3PL	1.449	0.623	0.366				
51	XI	3PL	0.693	-0.748	0.001				
52	XI	3PL	0.710	1.618	0.005				
53	XI	3PL	1.216	1.460	0.014				
54	XI	3PL	0.981	1.115	0.121				
55	XI	3PL	1.240	-0.848	0.097				
56	XI	3PL	1.165	-0.148	0.175				
57	XI	3PL	1.161	1.036	0.120				
58	XI	3PL	1.321	0.647	0.018				
59	XI	3PL	1.147	1.719	0.067				

**Table 61. Mathematics Grade 3 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	62	1.04	62	1.04	695	34	0.57	739	12.44	740	59	0.99	2839	47.78
651	5	0.08	67	1.13	696	35	0.59	774	13.03	741	65	1.09	2904	48.87
652	9	0.15	76	1.28	697	37	0.62	811	13.65	742	70	1.18	2974	50.05
653	2	0.03	78	1.31	698	41	0.69	852	14.34	743	68	1.14	3042	51.19
654	5	0.08	83	1.40	699	38	0.64	890	14.98	744	73	1.23	3115	52.42
655	4	0.07	87	1.46	700	41	0.69	931	15.67	745	50	0.84	3165	53.26
656	4	0.07	91	1.53	701	38	0.64	969	16.31	746	75	1.26	3240	54.53
657	7	0.12	98	1.65	702	31	0.52	1000	16.83	747	62	1.04	3302	55.57
658	9	0.15	107	1.80	703	34	0.57	1034	17.40	748	60	1.01	3362	56.58
659	4	0.07	111	1.87	704	36	0.61	1070	18.01	749	48	0.81	3410	57.39
660	5	0.08	116	1.95	705	50	0.84	1120	18.85	750	46	0.77	3456	58.16
661	7	0.12	123	2.07	706	29	0.49	1149	19.34	751	57	0.96	3513	59.12
662	10	0.17	133	2.24	707	49	0.82	1198	20.16	752	63	1.06	3576	60.18
663	6	0.10	139	2.34	708	42	0.71	1240	20.87	753	55	0.93	3631	61.11
664	9	0.15	148	2.49	709	35	0.59	1275	21.46	754	58	0.98	3689	62.08
665	18	0.30	166	2.79	710	42	0.71	1317	22.16	755	55	0.93	3744	63.01
666	14	0.24	180	3.03	711	38	0.64	1355	22.80	756	62	1.04	3806	64.05
667	12	0.20	192	3.23	712	36	0.61	1391	23.41	757	76	1.28	3882	65.33
668	15	0.25	207	3.48	713	42	0.71	1433	24.12	758	68	1.14	3950	66.48
669	12	0.20	219	3.69	714	39	0.66	1472	24.77	759	50	0.84	4000	67.32
670	8	0.13	227	3.82	715	44	0.74	1516	25.51	760	54	0.91	4054	68.23
671	12	0.20	239	4.02	716	51	0.86	1567	26.37	761	70	1.18	4124	69.40
672	13	0.22	252	4.24	717	41	0.69	1608	27.06	762	55	0.93	4179	70.33
673	16	0.27	268	4.51	718	48	0.81	1656	27.87	763	40	0.67	4219	71.00
674	10	0.17	278	4.68	719	48	0.81	1704	28.68	764	59	0.99	4278	72.00
675	15	0.25	293	4.93	720	43	0.72	1747	29.40	765	60	1.01	4338	73.01
676	17	0.29	310	5.22	721	53	0.89	1800	30.29	766	55	0.93	4393	73.93
677	18	0.30	328	5.52	722	56	0.94	1856	31.24	767	55	0.93	4448	74.86
678	18	0.30	346	5.82	723	44	0.74	1900	31.98	768	53	0.89	4501	75.75
679	18	0.30	364	6.13	724	52	0.88	1952	32.85	769	51	0.86	4552	76.61
680	22	0.37	386	6.50	725	62	1.04	2014	33.89	770	51	0.86	4603	77.47
681	20	0.34	406	6.83	726	52	0.88	2066	34.77	771	50	0.84	4653	78.31
682	23	0.39	429	7.22	727	56	0.94	2122	35.71	772	43	0.72	4696	79.03
683	16	0.27	445	7.49	728	48	0.81	2170	36.52	773	57	0.96	4753	79.99
684	23	0.39	468	7.88	729	60	1.01	2230	37.53	774	49	0.82	4802	80.81
685	25	0.42	493	8.30	730	57	0.96	2287	38.49	775	50	0.84	4852	81.66
686	17	0.29	510	8.58	731	47	0.79	2334	39.28	776	41	0.69	4893	82.35
687	22	0.37	532	8.95	732	48	0.81	2382	40.09	777	48	0.81	4941	83.15
688	22	0.37	554	9.32	733	57	0.96	2439	41.05	778	46	0.77	4987	83.93
689	23	0.39	577	9.71	734	46	0.77	2485	41.82	779	49	0.82	5036	84.75
690	22	0.37	599	10.08	735	70	1.18	2555	43.00	780	39	0.66	5075	85.41
691	31	0.52	630	10.60	736	52	0.88	2607	43.87	781	46	0.77	5121	86.18
692	32	0.54	662	11.14	737	58	0.98	2665	44.85	782	30	0.50	5151	86.69
693	19	0.32	681	11.46	738	48	0.81	2713	45.66	783	42	0.71	5193	87.39
694	24	0.40	705	11.86	739	67	1.13	2780	46.79	784	36	0.61	5229	88.00

**Table 62. Mathematics Grade 3 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>785</b>	36	0.61	5265	88.61	<b>830</b>	3	0.05	5913	99.51
<b>786</b>	39	0.66	5304	89.26	<b>831</b>	3	0.05	5916	99.56
<b>787</b>	33	0.56	5337	89.82	<b>832</b>	2	0.03	5918	99.60
<b>788</b>	32	0.54	5369	90.36	<b>834</b>	2	0.03	5920	99.63
<b>789</b>	30	0.50	5399	90.86	<b>835</b>	1	0.02	5921	99.65
<b>790</b>	33	0.56	5432	91.42	<b>837</b>	1	0.02	5922	99.66
<b>791</b>	31	0.52	5463	91.94	<b>838</b>	1	0.02	5923	99.68
<b>792</b>	25	0.42	5488	92.36	<b>839</b>	2	0.03	5925	99.71
<b>793</b>	26	0.44	5514	92.80	<b>840</b>	1	0.02	5926	99.73
<b>794</b>	20	0.34	5534	93.13	<b>842</b>	1	0.02	5927	99.75
<b>795</b>	25	0.42	5559	93.55	<b>843</b>	2	0.03	5929	99.78
<b>796</b>	24	0.40	5583	93.96	<b>848</b>	1	0.02	5930	99.80
<b>797</b>	19	0.32	5602	94.28	<b>850</b>	12	0.20	5942	100.00
<b>798</b>	18	0.30	5620	94.58					
<b>799</b>	16	0.27	5636	94.85					
<b>800</b>	14	0.24	5650	95.09					
<b>801</b>	17	0.29	5667	95.37					
<b>802</b>	18	0.30	5685	95.67					
<b>803</b>	17	0.29	5702	95.96					
<b>804</b>	21	0.35	5723	96.31					
<b>805</b>	11	0.19	5734	96.50					
<b>806</b>	12	0.20	5746	96.70					
<b>807</b>	10	0.17	5756	96.87					
<b>808</b>	10	0.17	5766	97.04					
<b>809</b>	8	0.13	5774	97.17					
<b>810</b>	20	0.34	5794	97.51					
<b>811</b>	3	0.05	5797	97.56					
<b>812</b>	10	0.17	5807	97.73					
<b>813</b>	2	0.03	5809	97.76					
<b>814</b>	8	0.13	5817	97.90					
<b>815</b>	4	0.07	5821	97.96					
<b>816</b>	10	0.17	5831	98.13					
<b>817</b>	15	0.25	5846	98.38					
<b>818</b>	4	0.07	5850	98.45					
<b>819</b>	12	0.20	5862	98.65					
<b>820</b>	5	0.08	5867	98.74					
<b>821</b>	2	0.03	5869	98.77					
<b>822</b>	5	0.08	5874	98.86					
<b>823</b>	5	0.08	5879	98.94					
<b>824</b>	7	0.12	5886	99.06					
<b>825</b>	9	0.15	5895	99.21					
<b>826</b>	4	0.07	5899	99.28					
<b>827</b>	6	0.10	5905	99.38					
<b>828</b>	3	0.05	5908	99.43					
<b>829</b>	2	0.03	5910	99.46					

**Table 63. Mathematics Grade 4 Scale Score Distribution**

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>
<b>650</b>	374	0.80	374	0.80	<b>695</b>	368	0.79	7797	16.67	<b>740</b>	496	1.06	29000	61.99
<b>651</b>	23	0.05	397	0.85	<b>696</b>	385	0.82	8182	17.49	<b>741</b>	494	1.06	29494	63.04
<b>652</b>	20	0.04	417	0.89	<b>697</b>	406	0.87	8588	18.36	<b>742</b>	470	1.00	29964	64.05
<b>653</b>	2	0.00	419	0.90	<b>698</b>	384	0.82	8972	19.18	<b>743</b>	535	1.14	30499	65.19
<b>654</b>	28	0.06	447	0.96	<b>699</b>	426	0.91	9398	20.09	<b>744</b>	531	1.14	31030	66.33
<b>655</b>	37	0.08	484	1.03	<b>700</b>	392	0.84	9790	20.93	<b>745</b>	484	1.03	31514	67.36
<b>656</b>	39	0.08	523	1.12	<b>701</b>	423	0.90	10213	21.83	<b>746</b>	454	0.97	31968	68.33
<b>657</b>	53	0.11	576	1.23	<b>702</b>	411	0.88	10624	22.71	<b>747</b>	504	1.08	32472	69.41
<b>658</b>	84	0.18	660	1.41	<b>703</b>	415	0.89	11039	23.60	<b>748</b>	496	1.06	32968	70.47
<b>659</b>	41	0.09	701	1.50	<b>704</b>	438	0.94	11477	24.53	<b>749</b>	473	1.01	33441	71.48
<b>660</b>	54	0.12	755	1.61	<b>705</b>	478	1.02	11955	25.55	<b>750</b>	484	1.03	33925	72.52
<b>661</b>	78	0.17	833	1.78	<b>706</b>	420	0.90	12375	26.45	<b>751</b>	462	0.99	34387	73.50
<b>662</b>	16	0.03	849	1.81	<b>707</b>	474	1.01	12849	27.47	<b>752</b>	473	1.01	34860	74.51
<b>663</b>	82	0.18	931	1.99	<b>708</b>	492	1.05	13341	28.52	<b>753</b>	431	0.92	35291	75.44
<b>664</b>	62	0.13	993	2.12	<b>709</b>	468	1.00	13809	29.52	<b>754</b>	480	1.03	35771	76.46
<b>665</b>	62	0.13	1055	2.26	<b>710</b>	457	0.98	14266	30.49	<b>755</b>	431	0.92	36202	77.38
<b>666</b>	81	0.17	1136	2.43	<b>711</b>	506	1.08	14772	31.58	<b>756</b>	392	0.84	36594	78.22
<b>667</b>	85	0.18	1221	2.61	<b>712</b>	487	1.04	15259	32.62	<b>757</b>	385	0.82	36979	79.04
<b>668</b>	108	0.23	1329	2.84	<b>713</b>	490	1.05	15749	33.66	<b>758</b>	409	0.87	37388	79.92
<b>669</b>	60	0.13	1389	2.97	<b>714</b>	466	1.00	16215	34.66	<b>759</b>	397	0.85	37785	80.77
<b>670</b>	87	0.19	1476	3.15	<b>715</b>	502	1.07	16717	35.73	<b>760</b>	375	0.80	38160	81.57
<b>671</b>	132	0.28	1608	3.44	<b>716</b>	484	1.03	17201	36.77	<b>761</b>	389	0.83	38549	82.40
<b>672</b>	153	0.33	1761	3.76	<b>717</b>	501	1.07	17702	37.84	<b>762</b>	341	0.73	38890	83.13
<b>673</b>	144	0.31	1905	4.07	<b>718</b>	489	1.05	18191	38.88	<b>763</b>	375	0.80	39265	83.93
<b>674</b>	129	0.28	2034	4.35	<b>719</b>	468	1.00	18659	39.88	<b>764</b>	344	0.74	39609	84.67
<b>675</b>	122	0.26	2156	4.61	<b>720</b>	489	1.05	19148	40.93	<b>765</b>	339	0.72	39948	85.39
<b>676</b>	171	0.37	2327	4.97	<b>721</b>	472	1.01	19620	41.94	<b>766</b>	337	0.72	40285	86.11
<b>677</b>	171	0.37	2498	5.34	<b>722</b>	496	1.06	20116	43.00	<b>767</b>	332	0.71	40617	86.82
<b>678</b>	180	0.38	2678	5.72	<b>723</b>	485	1.04	20601	44.04	<b>768</b>	309	0.66	40926	87.48
<b>679</b>	188	0.40	2866	6.13	<b>724</b>	465	0.99	21066	45.03	<b>769</b>	306	0.65	41232	88.13
<b>680</b>	202	0.43	3068	6.56	<b>725</b>	470	1.00	21536	46.03	<b>770</b>	273	0.58	41505	88.72
<b>681</b>	245	0.52	3313	7.08	<b>726</b>	450	0.96	21986	47.00	<b>771</b>	277	0.59	41782	89.31
<b>682</b>	231	0.49	3544	7.58	<b>727</b>	549	1.17	22535	48.17	<b>772</b>	246	0.53	42028	89.84
<b>683</b>	284	0.61	3828	8.18	<b>728</b>	478	1.02	23013	49.19	<b>773</b>	259	0.55	42287	90.39
<b>684</b>	275	0.59	4103	8.77	<b>729</b>	506	1.08	23519	50.27	<b>774</b>	240	0.51	42527	90.90
<b>685</b>	292	0.62	4395	9.39	<b>730</b>	520	1.11	24039	51.38	<b>775</b>	233	0.50	42760	91.40
<b>686</b>	313	0.67	4708	10.06	<b>731</b>	494	1.06	24533	52.44	<b>776</b>	240	0.51	43000	91.91
<b>687</b>	296	0.63	5004	10.70	<b>732</b>	497	1.06	25030	53.50	<b>777</b>	222	0.47	43222	92.39
<b>688</b>	307	0.66	5311	11.35	<b>733</b>	475	1.02	25505	54.52	<b>778</b>	191	0.41	43413	92.80
<b>689</b>	321	0.69	5632	12.04	<b>734</b>	470	1.00	25975	55.52	<b>779</b>	203	0.43	43616	93.23
<b>690</b>	333	0.71	5965	12.75	<b>735</b>	502	1.07	26477	56.60	<b>780</b>	180	0.38	43796	93.62
<b>691</b>	354	0.76	6319	13.51	<b>736</b>	497	1.06	26974	57.66	<b>781</b>	160	0.34	43956	93.96
<b>692</b>	352	0.75	6671	14.26	<b>737</b>	516	1.10	27490	58.76	<b>782</b>	190	0.41	44146	94.36
<b>693</b>	375	0.80	7046	15.06	<b>738</b>	502	1.07	27992	59.83	<b>783</b>	157	0.34	44303	94.70
<b>694</b>	383	0.82	7429	15.88	<b>739</b>	512	1.09	28504	60.93	<b>784</b>	167	0.36	44470	95.06

**Table 64. Mathematics Grade 4 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>785</b>	152	0.32	44622	95.38	<b>830</b>	10	0.02	46687	99.79
<b>786</b>	154	0.33	44776	95.71	<b>831</b>	7	0.01	46694	99.81
<b>787</b>	149	0.32	44925	96.03	<b>832</b>	3	0.01	46697	99.82
<b>788</b>	118	0.25	45043	96.28	<b>833</b>	3	0.01	46700	99.82
<b>789</b>	106	0.23	45149	96.51	<b>834</b>	12	0.03	46712	99.85
<b>790</b>	125	0.27	45274	96.77	<b>836</b>	7	0.01	46719	99.86
<b>791</b>	100	0.21	45374	96.99	<b>837</b>	1	0.00	46720	99.87
<b>792</b>	111	0.24	45485	97.23	<b>838</b>	10	0.02	46730	99.89
<b>793</b>	84	0.18	45569	97.41	<b>839</b>	2	0.00	46732	99.89
<b>794</b>	81	0.17	45650	97.58	<b>840</b>	2	0.00	46734	99.90
<b>795</b>	69	0.15	45719	97.73	<b>841</b>	1	0.00	46735	99.90
<b>796</b>	66	0.14	45785	97.87	<b>842</b>	2	0.00	46737	99.90
<b>797</b>	64	0.14	45849	98.00	<b>843</b>	5	0.01	46742	99.91
<b>798</b>	63	0.13	45912	98.14	<b>844</b>	2	0.00	46744	99.92
<b>799</b>	65	0.14	45977	98.28	<b>845</b>	2	0.00	46746	99.92
<b>800</b>	71	0.15	46048	98.43	<b>849</b>	1	0.00	46747	99.92
<b>801</b>	55	0.12	46103	98.55	<b>850</b>	36	0.08	46783	100.00
<b>802</b>	56	0.12	46159	98.67					
<b>803</b>	48	0.10	46207	98.77					
<b>804</b>	47	0.10	46254	98.87					
<b>805</b>	47	0.10	46301	98.97					
<b>806</b>	24	0.05	46325	99.02					
<b>807</b>	34	0.07	46359	99.09					
<b>808</b>	32	0.07	46391	99.16					
<b>809</b>	28	0.06	46419	99.22					
<b>810</b>	23	0.05	46442	99.27					
<b>811</b>	13	0.03	46455	99.30					
<b>812</b>	22	0.05	46477	99.35					
<b>813</b>	18	0.04	46495	99.38					
<b>814</b>	16	0.03	46511	99.42					
<b>815</b>	25	0.05	46536	99.47					
<b>816</b>	15	0.03	46551	99.50					
<b>817</b>	12	0.03	46563	99.53					
<b>818</b>	13	0.03	46576	99.56					
<b>819</b>	12	0.03	46588	99.58					
<b>820</b>	12	0.03	46600	99.61					
<b>821</b>	13	0.03	46613	99.64					
<b>822</b>	12	0.03	46625	99.66					
<b>823</b>	16	0.03	46641	99.70					
<b>824</b>	8	0.02	46649	99.71					
<b>825</b>	6	0.01	46655	99.73					
<b>826</b>	7	0.01	46662	99.74					
<b>827</b>	7	0.01	46669	99.76					
<b>828</b>	6	0.01	46675	99.77					
<b>829</b>	2	0.00	46677	99.77					

**Table 65. Mathematics Grade 5 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	14	0.24	14	0.24	697	37	0.62	714	12.03	742	59	0.99	3232	54.46
652	2	0.03	16	0.27	698	46	0.78	760	12.81	743	51	0.86	3283	55.32
653	1	0.02	17	0.29	699	54	0.91	814	13.72	744	60	1.01	3343	56.33
654	1	0.02	18	0.30	700	53	0.89	867	14.61	745	58	0.98	3401	57.30
655	3	0.05	21	0.35	701	49	0.83	916	15.43	746	75	1.26	3476	58.57
656	7	0.12	28	0.47	702	42	0.71	958	16.14	747	51	0.86	3527	59.43
657	3	0.05	31	0.52	703	50	0.84	1008	16.98	748	56	0.94	3583	60.37
658	2	0.03	33	0.56	704	48	0.81	1056	17.79	749	58	0.98	3641	61.35
659	3	0.05	36	0.61	705	49	0.83	1105	18.62	750	63	1.06	3704	62.41
661	3	0.05	39	0.66	706	38	0.64	1143	19.26	751	58	0.98	3762	63.39
662	1	0.02	40	0.67	707	49	0.83	1192	20.08	752	53	0.89	3815	64.28
663	2	0.03	42	0.71	708	59	0.99	1251	21.08	753	72	1.21	3887	65.49
664	2	0.03	44	0.74	709	52	0.88	1303	21.95	754	55	0.93	3942	66.42
665	2	0.03	46	0.78	710	49	0.83	1352	22.78	755	73	1.23	4015	67.65
666	5	0.08	51	0.86	711	65	1.10	1417	23.88	756	45	0.76	4060	68.41
667	7	0.12	58	0.98	712	59	0.99	1476	24.87	757	46	0.78	4106	69.18
668	5	0.08	63	1.06	713	51	0.86	1527	25.73	758	50	0.84	4156	70.03
669	9	0.15	72	1.21	714	63	1.06	1590	26.79	759	59	0.99	4215	71.02
670	9	0.15	81	1.36	715	52	0.88	1642	27.67	760	43	0.72	4258	71.74
671	9	0.15	90	1.52	716	54	0.91	1696	28.58	761	59	0.99	4317	72.74
672	9	0.15	99	1.67	717	56	0.94	1752	29.52	762	51	0.86	4368	73.60
673	3	0.05	102	1.72	718	66	1.11	1818	30.63	763	54	0.91	4422	74.51
674	8	0.13	110	1.85	719	55	0.93	1873	31.56	764	52	0.88	4474	75.38
675	9	0.15	119	2.01	720	59	0.99	1932	32.55	765	60	1.01	4534	76.39
676	13	0.22	132	2.22	721	65	1.10	1997	33.65	766	56	0.94	4590	77.34
677	19	0.32	151	2.54	722	69	1.16	2066	34.81	767	48	0.81	4638	78.15
678	24	0.40	175	2.95	723	62	1.04	2128	35.86	768	51	0.86	4689	79.01
679	18	0.30	193	3.25	724	62	1.04	2190	36.90	769	48	0.81	4737	79.81
680	9	0.15	202	3.40	725	63	1.06	2253	37.96	770	40	0.67	4777	80.49
681	16	0.27	218	3.67	726	56	0.94	2309	38.90	771	50	0.84	4827	81.33
682	20	0.34	238	4.01	727	68	1.15	2377	40.05	772	53	0.89	4880	82.22
683	23	0.39	261	4.40	728	48	0.81	2425	40.86	773	44	0.74	4924	82.97
684	25	0.42	286	4.82	729	49	0.83	2474	41.68	774	50	0.84	4974	83.81
685	23	0.39	309	5.21	730	71	1.20	2545	42.88	775	45	0.76	5019	84.57
686	18	0.30	327	5.51	731	58	0.98	2603	43.86	776	50	0.84	5069	85.41
687	32	0.54	359	6.05	732	48	0.81	2651	44.67	777	41	0.69	5110	86.10
688	31	0.52	390	6.57	733	51	0.86	2702	45.53	778	42	0.71	5152	86.81
689	31	0.52	421	7.09	734	55	0.93	2757	46.45	779	26	0.44	5178	87.25
690	38	0.64	459	7.73	735	56	0.94	2813	47.40	780	35	0.59	5213	87.83
691	32	0.54	491	8.27	736	58	0.98	2871	48.37	781	41	0.69	5254	88.53
692	30	0.51	521	8.78	737	54	0.91	2925	49.28	782	31	0.52	5285	89.05
693	34	0.57	555	9.35	738	65	1.10	2990	50.38	783	38	0.64	5323	89.69
694	38	0.64	593	9.99	739	60	1.01	3050	51.39	784	24	0.40	5347	90.09
695	45	0.76	638	10.75	740	56	0.94	3106	52.33	785	37	0.62	5384	90.72
696	39	0.66	677	11.41	741	67	1.13	3173	53.46	786	30	0.51	5414	91.22

**Table 66. Mathematics Grade 5 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>787</b>	26	0.44	5440	91.66	<b>842</b>	2	0.03	5934	99.98
<b>788</b>	39	0.66	5479	92.32	<b>850</b>	1	0.02	5935	100.00
<b>789</b>	29	0.49	5508	92.81					
<b>790</b>	30	0.51	5538	93.31					
<b>791</b>	19	0.32	5557	93.63					
<b>792</b>	25	0.42	5582	94.05					
<b>793</b>	32	0.54	5614	94.59					
<b>794</b>	25	0.42	5639	95.01					
<b>795</b>	19	0.32	5658	95.33					
<b>796</b>	22	0.37	5680	95.70					
<b>797</b>	25	0.42	5705	96.12					
<b>798</b>	15	0.25	5720	96.38					
<b>799</b>	20	0.34	5740	96.71					
<b>800</b>	17	0.29	5757	97.00					
<b>801</b>	12	0.20	5769	97.20					
<b>802</b>	15	0.25	5784	97.46					
<b>803</b>	8	0.13	5792	97.59					
<b>804</b>	12	0.20	5804	97.79					
<b>805</b>	12	0.20	5816	97.99					
<b>806</b>	15	0.25	5831	98.25					
<b>807</b>	15	0.25	5846	98.50					
<b>808</b>	4	0.07	5850	98.57					
<b>809</b>	5	0.08	5855	98.65					
<b>810</b>	7	0.12	5862	98.77					
<b>811</b>	8	0.13	5870	98.90					
<b>812</b>	3	0.05	5873	98.96					
<b>813</b>	6	0.10	5879	99.06					
<b>814</b>	9	0.15	5888	99.21					
<b>815</b>	6	0.10	5894	99.31					
<b>816</b>	4	0.07	5898	99.38					
<b>817</b>	2	0.03	5900	99.41					
<b>818</b>	4	0.07	5904	99.48					
<b>819</b>	5	0.08	5909	99.56					
<b>820</b>	3	0.05	5912	99.61					
<b>821</b>	3	0.05	5915	99.66					
<b>822</b>	2	0.03	5917	99.70					
<b>823</b>	1	0.02	5918	99.71					
<b>824</b>	3	0.05	5921	99.76					
<b>825</b>	1	0.02	5922	99.78					
<b>828</b>	3	0.05	5925	99.83					
<b>829</b>	1	0.02	5926	99.85					
<b>831</b>	1	0.02	5927	99.87					
<b>832</b>	3	0.05	5930	99.92					
<b>836</b>	1	0.02	5931	99.93					
<b>838</b>	1	0.02	5932	99.95					

**Table 67. Mathematics Grade 6 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>650</b>	477	1.06	477	1.06	<b>695</b>	412	0.92	7806	17.42	<b>740</b>	492	1.10	29907	66.73
<b>651</b>	30	0.07	507	1.13	<b>696</b>	370	0.83	8176	18.24	<b>741</b>	484	1.08	30391	67.81
<b>652</b>	120	0.27	627	1.40	<b>697</b>	427	0.95	8603	19.19	<b>742</b>	462	1.03	30853	68.84
<b>653</b>	41	0.09	668	1.49	<b>698</b>	404	0.90	9007	20.10	<b>743</b>	473	1.06	31326	69.89
<b>654</b>	1	0.00	669	1.49	<b>699</b>	417	0.93	9424	21.03	<b>744</b>	463	1.03	31789	70.93
<b>655</b>	12	0.03	681	1.52	<b>700</b>	428	0.95	9852	21.98	<b>745</b>	458	1.02	32247	71.95
<b>656</b>	1	0.00	682	1.52	<b>701</b>	447	1.00	10299	22.98	<b>746</b>	425	0.95	32672	72.90
<b>657</b>	4	0.01	686	1.53	<b>702</b>	437	0.98	10736	23.95	<b>747</b>	494	1.10	33166	74.00
<b>658</b>	17	0.04	703	1.57	<b>703</b>	442	0.99	11178	24.94	<b>748</b>	442	0.99	33608	74.99
<b>659</b>	115	0.26	818	1.83	<b>704</b>	430	0.96	11608	25.90	<b>749</b>	396	0.88	34004	75.87
<b>660</b>	72	0.16	890	1.99	<b>705</b>	471	1.05	12079	26.95	<b>750</b>	449	1.00	34453	76.87
<b>661</b>	8	0.02	898	2.00	<b>706</b>	466	1.04	12545	27.99	<b>751</b>	405	0.90	34858	77.78
<b>662</b>	68	0.15	966	2.16	<b>707</b>	448	1.00	12993	28.99	<b>752</b>	414	0.92	35272	78.70
<b>663</b>	86	0.19	1052	2.35	<b>708</b>	428	0.95	13421	29.94	<b>753</b>	387	0.86	35659	79.56
<b>664</b>	28	0.06	1080	2.41	<b>709</b>	468	1.04	13889	30.99	<b>754</b>	344	0.77	36003	80.33
<b>665</b>	61	0.14	1141	2.55	<b>710</b>	504	1.12	14393	32.11	<b>755</b>	376	0.84	36379	81.17
<b>666</b>	148	0.33	1289	2.88	<b>711</b>	486	1.08	14879	33.20	<b>756</b>	363	0.81	36742	81.98
<b>667</b>	48	0.11	1337	2.98	<b>712</b>	469	1.05	15348	34.24	<b>757</b>	361	0.81	37103	82.78
<b>668</b>	178	0.40	1515	3.38	<b>713</b>	533	1.19	15881	35.43	<b>758</b>	316	0.71	37419	83.49
<b>669</b>	119	0.27	1634	3.65	<b>714</b>	491	1.10	16372	36.53	<b>759</b>	349	0.78	37768	84.27
<b>670</b>	74	0.17	1708	3.81	<b>715</b>	500	1.12	16872	37.64	<b>760</b>	307	0.68	38075	84.95
<b>671</b>	63	0.14	1771	3.95	<b>716</b>	490	1.09	17362	38.74	<b>761</b>	328	0.73	38403	85.68
<b>672</b>	68	0.15	1839	4.10	<b>717</b>	531	1.18	17893	39.92	<b>762</b>	312	0.70	38715	86.38
<b>673</b>	254	0.57	2093	4.67	<b>718</b>	563	1.26	18456	41.18	<b>763</b>	286	0.64	39001	87.02
<b>674</b>	93	0.21	2186	4.88	<b>719</b>	508	1.13	18964	42.31	<b>764</b>	288	0.64	39289	87.66
<b>675</b>	90	0.20	2276	5.08	<b>720</b>	511	1.14	19475	43.45	<b>765</b>	271	0.60	39560	88.27
<b>676</b>	141	0.31	2417	5.39	<b>721</b>	540	1.20	20015	44.66	<b>766</b>	251	0.56	39811	88.83
<b>677</b>	259	0.58	2676	5.97	<b>722</b>	514	1.15	20529	45.80	<b>767</b>	260	0.58	40071	89.41
<b>678</b>	149	0.33	2825	6.30	<b>723</b>	532	1.19	21061	46.99	<b>768</b>	240	0.54	40311	89.94
<b>679</b>	174	0.39	2999	6.69	<b>724</b>	514	1.15	21575	48.14	<b>769</b>	228	0.51	40539	90.45
<b>680</b>	221	0.49	3220	7.18	<b>725</b>	503	1.12	22078	49.26	<b>770</b>	214	0.48	40753	90.93
<b>681</b>	198	0.44	3418	7.63	<b>726</b>	546	1.22	22624	50.48	<b>771</b>	247	0.55	41000	91.48
<b>682</b>	299	0.67	3717	8.29	<b>727</b>	516	1.15	23140	51.63	<b>772</b>	216	0.48	41216	91.96
<b>683</b>	214	0.48	3931	8.77	<b>728</b>	536	1.20	23676	52.83	<b>773</b>	214	0.48	41430	92.44
<b>684</b>	179	0.40	4110	9.17	<b>729</b>	518	1.16	24194	53.98	<b>774</b>	190	0.42	41620	92.86
<b>685</b>	293	0.65	4403	9.82	<b>730</b>	508	1.13	24702	55.12	<b>775</b>	185	0.41	41805	93.28
<b>686</b>	263	0.59	4666	10.41	<b>731</b>	555	1.24	25257	56.35	<b>776</b>	201	0.45	42006	93.72
<b>687</b>	293	0.65	4959	11.06	<b>732</b>	543	1.21	25800	57.56	<b>777</b>	142	0.32	42148	94.04
<b>688</b>	329	0.73	5288	11.80	<b>733</b>	511	1.14	26311	58.71	<b>778</b>	157	0.35	42305	94.39
<b>689</b>	312	0.70	5600	12.49	<b>734</b>	542	1.21	26853	59.91	<b>779</b>	162	0.36	42467	94.75
<b>690</b>	358	0.80	5958	13.29	<b>735</b>	513	1.14	27366	61.06	<b>780</b>	115	0.26	42582	95.01
<b>691</b>	338	0.75	6296	14.05	<b>736</b>	472	1.05	27838	62.11	<b>781</b>	137	0.31	42719	95.31
<b>692</b>	364	0.81	6660	14.86	<b>737</b>	496	1.11	28334	63.22	<b>782</b>	134	0.30	42853	95.61
<b>693</b>	344	0.77	7004	15.63	<b>738</b>	559	1.25	28893	64.47	<b>783</b>	128	0.29	42981	95.90
<b>694</b>	390	0.87	7394	16.50	<b>739</b>	522	1.16	29415	65.63	<b>784</b>	105	0.23	43086	96.13

**Table 68. Mathematics Grade 6 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>785</b>	110	0.25	43196	96.38	<b>830</b>	8	0.02	44759	99.87
<b>786</b>	94	0.21	43290	96.59	<b>831</b>	5	0.01	44764	99.88
<b>787</b>	97	0.22	43387	96.80	<b>832</b>	5	0.01	44769	99.89
<b>788</b>	94	0.21	43481	97.01	<b>833</b>	2	0.00	44771	99.89
<b>789</b>	96	0.21	43577	97.23	<b>834</b>	5	0.01	44776	99.90
<b>790</b>	84	0.19	43661	97.42	<b>835</b>	4	0.01	44780	99.91
<b>791</b>	89	0.20	43750	97.61	<b>836</b>	4	0.01	44784	99.92
<b>792</b>	62	0.14	43812	97.75	<b>837</b>	3	0.01	44787	99.93
<b>793</b>	74	0.17	43886	97.92	<b>839</b>	3	0.01	44790	99.94
<b>794</b>	73	0.16	43959	98.08	<b>840</b>	2	0.00	44792	99.94
<b>795</b>	64	0.14	44023	98.22	<b>841</b>	2	0.00	44794	99.94
<b>796</b>	55	0.12	44078	98.35	<b>842</b>	2	0.00	44796	99.95
<b>797</b>	50	0.11	44128	98.46	<b>843</b>	1	0.00	44797	99.95
<b>798</b>	41	0.09	44169	98.55	<b>844</b>	1	0.00	44798	99.95
<b>799</b>	60	0.13	44229	98.68	<b>845</b>	3	0.01	44801	99.96
<b>800</b>	35	0.08	44264	98.76	<b>846</b>	3	0.01	44804	99.97
<b>801</b>	37	0.08	44301	98.84	<b>847</b>	1	0.00	44805	99.97
<b>802</b>	38	0.08	44339	98.93	<b>849</b>	2	0.00	44807	99.97
<b>803</b>	35	0.08	44374	99.01	<b>850</b>	12	0.03	44819	100.00
<b>804</b>	35	0.08	44409	99.09					
<b>805</b>	36	0.08	44445	99.17					
<b>806</b>	25	0.06	44470	99.22					
<b>807</b>	27	0.06	44497	99.28					
<b>808</b>	32	0.07	44529	99.35					
<b>809</b>	17	0.04	44546	99.39					
<b>810</b>	20	0.04	44566	99.44					
<b>811</b>	13	0.03	44579	99.46					
<b>812</b>	14	0.03	44593	99.50					
<b>813</b>	16	0.04	44609	99.53					
<b>814</b>	18	0.04	44627	99.57					
<b>815</b>	17	0.04	44644	99.61					
<b>816</b>	14	0.03	44658	99.64					
<b>817</b>	6	0.01	44664	99.65					
<b>818</b>	14	0.03	44678	99.69					
<b>819</b>	8	0.02	44686	99.70					
<b>820</b>	12	0.03	44698	99.73					
<b>821</b>	10	0.02	44708	99.75					
<b>822</b>	7	0.02	44715	99.77					
<b>823</b>	3	0.01	44718	99.77					
<b>824</b>	6	0.01	44724	99.79					
<b>825</b>	4	0.01	44728	99.80					
<b>826</b>	8	0.02	44736	99.81					
<b>827</b>	8	0.02	44744	99.83					
<b>828</b>	4	0.01	44748	99.84					
<b>829</b>	3	0.01	44751	99.85					

**Table 69. Mathematics Grade 7 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>650</b>	9	0.16	9	0.16	<b>701</b>	47	0.85	647	11.74	<b>746</b>	55	1.00	3821	69.35
<b>651</b>	2	0.04	11	0.20	<b>702</b>	57	1.03	704	12.78	<b>747</b>	66	1.20	3887	70.54
<b>654</b>	3	0.05	14	0.25	<b>703</b>	52	0.94	756	13.72	<b>748</b>	59	1.07	3946	71.62
<b>656</b>	1	0.02	15	0.27	<b>704</b>	45	0.82	801	14.54	<b>749</b>	61	1.11	4007	72.72
<b>657</b>	2	0.04	17	0.31	<b>705</b>	56	1.02	857	15.55	<b>750</b>	67	1.22	4074	73.94
<b>659</b>	1	0.02	18	0.33	<b>706</b>	55	1.00	912	16.55	<b>751</b>	59	1.07	4133	75.01
<b>660</b>	2	0.04	20	0.36	<b>707</b>	74	1.34	986	17.89	<b>752</b>	72	1.31	4205	76.32
<b>661</b>	1	0.02	21	0.38	<b>708</b>	59	1.07	1045	18.97	<b>753</b>	55	1.00	4260	77.31
<b>662</b>	2	0.04	23	0.42	<b>709</b>	64	1.16	1109	20.13	<b>754</b>	66	1.20	4326	78.51
<b>663</b>	4	0.07	27	0.49	<b>710</b>	79	1.43	1188	21.56	<b>755</b>	59	1.07	4385	79.58
<b>664</b>	1	0.02	28	0.51	<b>711</b>	59	1.07	1247	22.63	<b>756</b>	46	0.83	4431	80.42
<b>665</b>	2	0.04	30	0.54	<b>712</b>	75	1.36	1322	23.99	<b>757</b>	70	1.27	4501	81.69
<b>668</b>	3	0.05	33	0.60	<b>713</b>	73	1.32	1395	25.32	<b>758</b>	56	1.02	4557	82.70
<b>669</b>	6	0.11	39	0.71	<b>714</b>	80	1.45	1475	26.77	<b>759</b>	52	0.94	4609	83.65
<b>670</b>	2	0.04	41	0.74	<b>715</b>	68	1.23	1543	28.00	<b>760</b>	42	0.76	4651	84.41
<b>671</b>	9	0.16	50	0.91	<b>716</b>	78	1.42	1621	29.42	<b>761</b>	45	0.82	4696	85.23
<b>672</b>	2	0.04	52	0.94	<b>717</b>	78	1.42	1699	30.83	<b>762</b>	50	0.91	4746	86.13
<b>673</b>	4	0.07	56	1.02	<b>718</b>	86	1.56	1785	32.40	<b>763</b>	44	0.80	4790	86.93
<b>674</b>	3	0.05	59	1.07	<b>719</b>	80	1.45	1865	33.85	<b>764</b>	36	0.65	4826	87.59
<b>675</b>	7	0.13	66	1.20	<b>720</b>	82	1.49	1947	35.34	<b>765</b>	44	0.80	4870	88.38
<b>676</b>	3	0.05	69	1.25	<b>721</b>	87	1.58	2034	36.91	<b>766</b>	39	0.71	4909	89.09
<b>677</b>	7	0.13	76	1.38	<b>722</b>	65	1.18	2099	38.09	<b>767</b>	39	0.71	4948	89.80
<b>678</b>	5	0.09	81	1.47	<b>723</b>	79	1.43	2178	39.53	<b>768</b>	25	0.45	4973	90.25
<b>679</b>	9	0.16	90	1.63	<b>724</b>	77	1.40	2255	40.93	<b>769</b>	35	0.64	5008	90.89
<b>680</b>	8	0.15	98	1.78	<b>725</b>	62	1.13	2317	42.05	<b>770</b>	32	0.58	5040	91.47
<b>681</b>	7	0.13	105	1.91	<b>726</b>	78	1.42	2395	43.47	<b>771</b>	28	0.51	5068	91.98
<b>682</b>	10	0.18	115	2.09	<b>727</b>	62	1.13	2457	44.59	<b>772</b>	34	0.62	5102	92.60
<b>683</b>	16	0.29	131	2.38	<b>728</b>	86	1.56	2543	46.15	<b>773</b>	23	0.42	5125	93.01
<b>684</b>	10	0.18	141	2.56	<b>729</b>	77	1.40	2620	47.55	<b>774</b>	29	0.53	5154	93.54
<b>685</b>	18	0.33	159	2.89	<b>730</b>	72	1.31	2692	48.86	<b>775</b>	26	0.47	5180	94.01
<b>686</b>	13	0.24	172	3.12	<b>731</b>	84	1.52	2776	50.38	<b>776</b>	23	0.42	5203	94.43
<b>687</b>	19	0.34	191	3.47	<b>732</b>	93	1.69	2869	52.07	<b>777</b>	16	0.29	5219	94.72
<b>688</b>	19	0.34	210	3.81	<b>733</b>	74	1.34	2943	53.41	<b>778</b>	22	0.40	5241	95.12
<b>689</b>	21	0.38	231	4.19	<b>734</b>	71	1.29	3014	54.70	<b>779</b>	16	0.29	5257	95.41
<b>690</b>	24	0.44	255	4.63	<b>735</b>	89	1.62	3103	56.32	<b>780</b>	21	0.38	5278	95.79
<b>691</b>	21	0.38	276	5.01	<b>736</b>	64	1.16	3167	57.48	<b>781</b>	15	0.27	5293	96.06
<b>692</b>	27	0.49	303	5.50	<b>737</b>	64	1.16	3231	58.64	<b>782</b>	21	0.38	5314	96.44
<b>693</b>	23	0.42	326	5.92	<b>738</b>	75	1.36	3306	60.00	<b>783</b>	19	0.34	5333	96.79
<b>694</b>	39	0.71	365	6.62	<b>739</b>	75	1.36	3381	61.36	<b>784</b>	20	0.36	5353	97.15
<b>695</b>	41	0.74	406	7.37	<b>740</b>	67	1.22	3448	62.58	<b>785</b>	17	0.31	5370	97.46
<b>696</b>	38	0.69	444	8.06	<b>741</b>	60	1.09	3508	63.67	<b>786</b>	13	0.24	5383	97.70
<b>697</b>	43	0.78	487	8.84	<b>742</b>	65	1.18	3573	64.85	<b>787</b>	12	0.22	5395	97.91
<b>698</b>	29	0.53	516	9.36	<b>743</b>	71	1.29	3644	66.13	<b>788</b>	5	0.09	5400	98.00
<b>699</b>	35	0.64	551	10.00	<b>744</b>	54	0.98	3698	67.11	<b>789</b>	10	0.18	5410	98.19
<b>700</b>	49	0.89	600	10.89	<b>745</b>	68	1.23	3766	68.35	<b>790</b>	4	0.07	5414	98.26

**Table 70. Mathematics Grade 7 Scale Score Distribution (continued)**

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>
<b>791</b>	8	0.15	5422	98.40
<b>792</b>	9	0.16	5431	98.57
<b>793</b>	3	0.05	5434	98.62
<b>794</b>	8	0.15	5442	98.77
<b>795</b>	2	0.04	5444	98.80
<b>796</b>	12	0.22	5456	99.02
<b>797</b>	5	0.09	5461	99.11
<b>798</b>	9	0.16	5470	99.27
<b>799</b>	7	0.13	5477	99.40
<b>800</b>	3	0.05	5480	99.46
<b>801</b>	3	0.05	5483	99.51
<b>803</b>	4	0.07	5487	99.58
<b>804</b>	1	0.02	5488	99.60
<b>805</b>	3	0.05	5491	99.66
<b>806</b>	4	0.07	5495	99.73
<b>809</b>	1	0.02	5496	99.75
<b>810</b>	1	0.02	5497	99.76
<b>811</b>	1	0.02	5498	99.78
<b>812</b>	1	0.02	5499	99.80
<b>815</b>	1	0.02	5500	99.82
<b>816</b>	2	0.04	5502	99.85
<b>821</b>	3	0.05	5505	99.91
<b>824</b>	1	0.02	5506	99.93
<b>828</b>	1	0.02	5507	99.95
<b>832</b>	1	0.02	5508	99.96
<b>837</b>	1	0.02	5509	99.98
<b>840</b>	1	0.02	5510	100.00

**Table 71. Mathematics Grade 8 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>650</b>	370	0.94	370	0.94	<b>695</b>	291	0.74	7454	19.01	<b>740</b>	338	0.86	24736	63.09
<b>651</b>	28	0.07	398	1.02	<b>696</b>	356	0.91	7810	19.92	<b>741</b>	307	0.78	25043	63.88
<b>652</b>	37	0.09	435	1.11	<b>697</b>	341	0.87	8151	20.79	<b>742</b>	324	0.83	25367	64.70
<b>653</b>	33	0.08	468	1.19	<b>698</b>	338	0.86	8489	21.65	<b>743</b>	349	0.89	25716	65.59
<b>654</b>	42	0.11	510	1.30	<b>699</b>	329	0.84	8818	22.49	<b>744</b>	340	0.87	26056	66.46
<b>655</b>	42	0.11	552	1.41	<b>700</b>	378	0.96	9196	23.46	<b>745</b>	303	0.77	26359	67.23
<b>656</b>	46	0.12	598	1.53	<b>701</b>	415	1.06	9611	24.51	<b>746</b>	306	0.78	26665	68.01
<b>657</b>	67	0.17	665	1.70	<b>702</b>	375	0.96	9986	25.47	<b>747</b>	332	0.85	26997	68.86
<b>658</b>	50	0.13	715	1.82	<b>703</b>	422	1.08	10408	26.55	<b>748</b>	319	0.81	27316	69.67
<b>659</b>	49	0.12	764	1.95	<b>704</b>	366	0.93	10774	27.48	<b>749</b>	314	0.80	27630	70.48
<b>660</b>	55	0.14	819	2.09	<b>705</b>	397	1.01	11171	28.49	<b>750</b>	283	0.72	27913	71.20
<b>661</b>	71	0.18	890	2.27	<b>706</b>	407	1.04	11578	29.53	<b>751</b>	273	0.70	28186	71.89
<b>662</b>	65	0.17	955	2.44	<b>707</b>	407	1.04	11985	30.57	<b>752</b>	262	0.67	28448	72.56
<b>663</b>	78	0.20	1033	2.63	<b>708</b>	390	0.99	12375	31.56	<b>753</b>	264	0.67	28712	73.24
<b>664</b>	90	0.23	1123	2.86	<b>709</b>	403	1.03	12778	32.59	<b>754</b>	293	0.75	29005	73.98
<b>665</b>	83	0.21	1206	3.08	<b>710</b>	400	1.02	13178	33.61	<b>755</b>	277	0.71	29282	74.69
<b>666</b>	103	0.26	1309	3.34	<b>711</b>	368	0.94	13546	34.55	<b>756</b>	249	0.64	29531	75.32
<b>667</b>	97	0.25	1406	3.59	<b>712</b>	390	0.99	13936	35.55	<b>757</b>	281	0.72	29812	76.04
<b>668</b>	97	0.25	1503	3.83	<b>713</b>	395	1.01	14331	36.55	<b>758</b>	233	0.59	30045	76.64
<b>669</b>	132	0.34	1635	4.17	<b>714</b>	401	1.02	14732	37.58	<b>759</b>	268	0.68	30313	77.32
<b>670</b>	117	0.30	1752	4.47	<b>715</b>	384	0.98	15116	38.56	<b>760</b>	258	0.66	30571	77.98
<b>671</b>	116	0.30	1868	4.76	<b>716</b>	397	1.01	15513	39.57	<b>761</b>	241	0.61	30812	78.59
<b>672</b>	148	0.38	2016	5.14	<b>717</b>	408	1.04	15921	40.61	<b>762</b>	226	0.58	31038	79.17
<b>673</b>	123	0.31	2139	5.46	<b>718</b>	407	1.04	16328	41.65	<b>763</b>	243	0.62	31281	79.79
<b>674</b>	152	0.39	2291	5.84	<b>719</b>	426	1.09	16754	42.73	<b>764</b>	209	0.53	31490	80.32
<b>675</b>	143	0.36	2434	6.21	<b>720</b>	441	1.12	17195	43.86	<b>765</b>	266	0.68	31756	81.00
<b>676</b>	151	0.39	2585	6.59	<b>721</b>	419	1.07	17614	44.93	<b>766</b>	224	0.57	31980	81.57
<b>677</b>	174	0.44	2759	7.04	<b>722</b>	412	1.05	18026	45.98	<b>767</b>	208	0.53	32188	82.10
<b>678</b>	196	0.50	2955	7.54	<b>723</b>	398	1.02	18424	46.99	<b>768</b>	201	0.51	32389	82.61
<b>679</b>	208	0.53	3163	8.07	<b>724</b>	388	0.99	18812	47.98	<b>769</b>	207	0.53	32596	83.14
<b>680</b>	199	0.51	3362	8.58	<b>725</b>	427	1.09	19239	49.07	<b>770</b>	218	0.56	32814	83.70
<b>681</b>	179	0.46	3541	9.03	<b>726</b>	383	0.98	19622	50.05	<b>771</b>	213	0.54	33027	84.24
<b>682</b>	217	0.55	3758	9.59	<b>727</b>	374	0.95	19996	51.00	<b>772</b>	208	0.53	33235	84.77
<b>683</b>	248	0.63	4006	10.22	<b>728</b>	395	1.01	20391	52.01	<b>773</b>	191	0.49	33426	85.26
<b>684</b>	246	0.63	4252	10.85	<b>729</b>	386	0.98	20777	53.00	<b>774</b>	172	0.44	33598	85.70
<b>685</b>	264	0.67	4516	11.52	<b>730</b>	377	0.96	21154	53.96	<b>775</b>	182	0.46	33780	86.16
<b>686</b>	258	0.66	4774	12.18	<b>731</b>	395	1.01	21549	54.96	<b>776</b>	174	0.44	33954	86.61
<b>687</b>	323	0.82	5097	13.00	<b>732</b>	349	0.89	21898	55.86	<b>777</b>	178	0.45	34132	87.06
<b>688</b>	279	0.71	5376	13.71	<b>733</b>	340	0.87	22238	56.72	<b>778</b>	193	0.49	34325	87.55
<b>689</b>	284	0.72	5660	14.44	<b>734</b>	364	0.93	22602	57.65	<b>779</b>	175	0.45	34500	88.00
<b>690</b>	262	0.67	5922	15.11	<b>735</b>	385	0.98	22987	58.63	<b>780</b>	182	0.46	34682	88.46
<b>691</b>	303	0.77	6225	15.88	<b>736</b>	362	0.92	23349	59.56	<b>781</b>	158	0.40	34840	88.87
<b>692</b>	324	0.83	6549	16.70	<b>737</b>	352	0.90	23701	60.45	<b>782</b>	148	0.38	34988	89.24
<b>693</b>	322	0.82	6871	17.53	<b>738</b>	347	0.89	24048	61.34	<b>783</b>	182	0.46	35170	89.71
<b>694</b>	292	0.74	7163	18.27	<b>739</b>	350	0.89	24398	62.23	<b>784</b>	171	0.44	35341	90.14

**Table 72. Mathematics Grade 8 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>785</b>	163	0.42	35504	90.56	<b>830</b>	24	0.06	38881	99.17
<b>786</b>	138	0.35	35642	90.91	<b>831</b>	13	0.03	38894	99.21
<b>787</b>	144	0.37	35786	91.28	<b>832</b>	19	0.05	38913	99.26
<b>788</b>	147	0.37	35933	91.65	<b>833</b>	14	0.04	38927	99.29
<b>789</b>	120	0.31	36053	91.96	<b>834</b>	15	0.04	38942	99.33
<b>790</b>	148	0.38	36201	92.34	<b>835</b>	6	0.02	38948	99.34
<b>791</b>	125	0.32	36326	92.66	<b>836</b>	20	0.05	38968	99.40
<b>792</b>	128	0.33	36454	92.98	<b>837</b>	15	0.04	38983	99.43
<b>793</b>	126	0.32	36580	93.30	<b>838</b>	20	0.05	39003	99.48
<b>794</b>	133	0.34	36713	93.64	<b>839</b>	11	0.03	39014	99.51
<b>795</b>	111	0.28	36824	93.93	<b>840</b>	9	0.02	39023	99.54
<b>796</b>	98	0.25	36922	94.18	<b>841</b>	7	0.02	39030	99.55
<b>797</b>	98	0.25	37020	94.43	<b>842</b>	9	0.02	39039	99.58
<b>798</b>	111	0.28	37131	94.71	<b>843</b>	7	0.02	39046	99.59
<b>799</b>	109	0.28	37240	94.99	<b>844</b>	9	0.02	39055	99.62
<b>800</b>	112	0.29	37352	95.27	<b>845</b>	16	0.04	39071	99.66
<b>801</b>	92	0.23	37444	95.51	<b>846</b>	6	0.02	39077	99.67
<b>802</b>	90	0.23	37534	95.74	<b>847</b>	3	0.01	39080	99.68
<b>803</b>	83	0.21	37617	95.95	<b>848</b>	7	0.02	39087	99.70
<b>804</b>	73	0.19	37690	96.14	<b>849</b>	8	0.02	39095	99.72
<b>805</b>	86	0.22	37776	96.36	<b>850</b>	110	0.28	39205	100.00
<b>806</b>	77	0.20	37853	96.55					
<b>807</b>	64	0.16	37917	96.71					
<b>808</b>	69	0.18	37986	96.89					
<b>809</b>	69	0.18	38055	97.07					
<b>810</b>	71	0.18	38126	97.25					
<b>811</b>	73	0.19	38199	97.43					
<b>812</b>	56	0.14	38255	97.58					
<b>813</b>	45	0.11	38300	97.69					
<b>814</b>	47	0.12	38347	97.81					
<b>815</b>	44	0.11	38391	97.92					
<b>816</b>	46	0.12	38437	98.04					
<b>817</b>	32	0.08	38469	98.12					
<b>818</b>	50	0.13	38519	98.25					
<b>819</b>	32	0.08	38551	98.33					
<b>820</b>	30	0.08	38581	98.41					
<b>821</b>	46	0.12	38627	98.53					
<b>822</b>	23	0.06	38650	98.58					
<b>823</b>	39	0.10	38689	98.68					
<b>824</b>	26	0.07	38715	98.75					
<b>825</b>	34	0.09	38749	98.84					
<b>826</b>	27	0.07	38776	98.91					
<b>827</b>	30	0.08	38806	98.98					
<b>828</b>	29	0.07	38835	99.06					
<b>829</b>	22	0.06	38857	99.11					

**Table 73. ELA Grade 3 Scale Score Distribution**

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>
<b>650</b>	922	2.04	922	2.04	<b>695</b>	293	0.65	8602	19.03	<b>740</b>	405	0.90	23945	52.99
<b>651</b>	39	0.09	961	2.13	<b>696</b>	270	0.60	8872	19.63	<b>741</b>	397	0.88	24342	53.86
<b>652</b>	58	0.13	1019	2.25	<b>697</b>	274	0.61	9146	20.24	<b>742</b>	403	0.89	24745	54.76
<b>653</b>	67	0.15	1086	2.40	<b>698</b>	298	0.66	9444	20.90	<b>743</b>	428	0.95	25173	55.70
<b>654</b>	62	0.14	1148	2.54	<b>699</b>	292	0.65	9736	21.54	<b>744</b>	397	0.88	25570	56.58
<b>655</b>	59	0.13	1207	2.67	<b>700</b>	300	0.66	10036	22.21	<b>745</b>	398	0.88	25968	57.46
<b>656</b>	66	0.15	1273	2.82	<b>701</b>	270	0.60	10306	22.81	<b>746</b>	375	0.83	26343	58.29
<b>657</b>	88	0.19	1361	3.01	<b>702</b>	304	0.67	10610	23.48	<b>747</b>	361	0.80	26704	59.09
<b>658</b>	104	0.23	1465	3.24	<b>703</b>	301	0.67	10911	24.14	<b>748</b>	401	0.89	27105	59.98
<b>659</b>	111	0.25	1576	3.49	<b>704</b>	304	0.67	11215	24.82	<b>749</b>	403	0.89	27508	60.87
<b>660</b>	97	0.21	1673	3.70	<b>705</b>	299	0.66	11514	25.48	<b>750</b>	425	0.94	27933	61.81
<b>661</b>	92	0.20	1765	3.91	<b>706</b>	312	0.69	11826	26.17	<b>751</b>	429	0.95	28362	62.76
<b>662</b>	100	0.22	1865	4.13	<b>707</b>	300	0.66	12126	26.83	<b>752</b>	397	0.88	28759	63.64
<b>663</b>	124	0.27	1989	4.40	<b>708</b>	313	0.69	12439	27.53	<b>753</b>	376	0.83	29135	64.47
<b>664</b>	114	0.25	2103	4.65	<b>709</b>	307	0.68	12746	28.20	<b>754</b>	397	0.88	29532	65.35
<b>665</b>	98	0.22	2201	4.87	<b>710</b>	315	0.70	13061	28.90	<b>755</b>	381	0.84	29913	66.19
<b>666</b>	115	0.25	2316	5.12	<b>711</b>	340	0.75	13401	29.65	<b>756</b>	398	0.88	30311	67.07
<b>667</b>	120	0.27	2436	5.39	<b>712</b>	351	0.78	13752	30.43	<b>757</b>	433	0.96	30744	68.03
<b>668</b>	161	0.36	2597	5.75	<b>713</b>	301	0.67	14053	31.10	<b>758</b>	362	0.80	31106	68.83
<b>669</b>	158	0.35	2755	6.10	<b>714</b>	329	0.73	14382	31.82	<b>759</b>	387	0.86	31493	69.69
<b>670</b>	141	0.31	2896	6.41	<b>715</b>	329	0.73	14711	32.55	<b>760</b>	383	0.85	31876	70.54
<b>671</b>	156	0.35	3052	6.75	<b>716</b>	354	0.78	15065	33.34	<b>761</b>	367	0.81	32243	71.35
<b>672</b>	163	0.36	3215	7.11	<b>717</b>	350	0.77	15415	34.11	<b>762</b>	364	0.81	32607	72.15
<b>673</b>	189	0.42	3404	7.53	<b>718</b>	346	0.77	15761	34.88	<b>763</b>	342	0.76	32949	72.91
<b>674</b>	199	0.44	3603	7.97	<b>719</b>	377	0.83	16138	35.71	<b>764</b>	327	0.72	33276	73.63
<b>675</b>	208	0.46	3811	8.43	<b>720</b>	324	0.72	16462	36.43	<b>765</b>	340	0.75	33616	74.39
<b>676</b>	198	0.44	4009	8.87	<b>721</b>	328	0.73	16790	37.15	<b>766</b>	336	0.74	33952	75.13
<b>677</b>	203	0.45	4212	9.32	<b>722</b>	331	0.73	17121	37.89	<b>767</b>	350	0.77	34302	75.90
<b>678</b>	200	0.44	4412	9.76	<b>723</b>	370	0.82	17491	38.70	<b>768</b>	340	0.75	34642	76.66
<b>679</b>	193	0.43	4605	10.19	<b>724</b>	359	0.79	17850	39.50	<b>769</b>	347	0.77	34989	77.42
<b>680</b>	222	0.49	4827	10.68	<b>725</b>	354	0.78	18204	40.28	<b>770</b>	312	0.69	35301	78.12
<b>681</b>	217	0.48	5044	11.16	<b>726</b>	370	0.82	18574	41.10	<b>771</b>	304	0.67	35605	78.79
<b>682</b>	260	0.58	5304	11.74	<b>727</b>	371	0.82	18945	41.92	<b>772</b>	318	0.70	35923	79.49
<b>683</b>	222	0.49	5526	12.23	<b>728</b>	389	0.86	19334	42.78	<b>773</b>	332	0.73	36255	80.23
<b>684</b>	243	0.54	5769	12.77	<b>729</b>	373	0.83	19707	43.61	<b>774</b>	309	0.68	36564	80.91
<b>685</b>	234	0.52	6003	13.28	<b>730</b>	382	0.85	20089	44.45	<b>775</b>	273	0.60	36837	81.51
<b>686</b>	260	0.58	6263	13.86	<b>731</b>	345	0.76	20434	45.22	<b>776</b>	294	0.65	37131	82.16
<b>687</b>	247	0.55	6510	14.41	<b>732</b>	370	0.82	20804	46.04	<b>777</b>	270	0.60	37401	82.76
<b>688</b>	259	0.57	6769	14.98	<b>733</b>	409	0.91	21213	46.94	<b>778</b>	292	0.65	37693	83.41
<b>689</b>	225	0.50	6994	15.48	<b>734</b>	344	0.76	21557	47.70	<b>779</b>	319	0.71	38012	84.11
<b>690</b>	268	0.59	7262	16.07	<b>735</b>	390	0.86	21947	48.56	<b>780</b>	254	0.56	38266	84.68
<b>691</b>	265	0.59	7527	16.66	<b>736</b>	368	0.81	22315	49.38	<b>781</b>	254	0.56	38520	85.24
<b>692</b>	261	0.58	7788	17.23	<b>737</b>	411	0.91	22726	50.29	<b>782</b>	281	0.62	38801	85.86
<b>693</b>	246	0.54	8034	17.78	<b>738</b>	406	0.90	23132	51.19	<b>783</b>	248	0.55	39049	86.41
<b>694</b>	275	0.61	8309	18.39	<b>739</b>	408	0.90	23540	52.09	<b>784</b>	232	0.51	39281	86.92

**Table 74. ELA Grade 3 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	203	0.45	39484	87.37	830	46	0.10	44591	98.67
786	221	0.49	39705	87.86	831	36	0.08	44627	98.75
787	195	0.43	39900	88.29	832	20	0.04	44647	98.80
788	199	0.44	40099	88.73	833	29	0.06	44676	98.86
789	218	0.48	40317	89.21	834	30	0.07	44706	98.93
790	224	0.50	40541	89.71	835	29	0.06	44735	98.99
791	193	0.43	40734	90.14	836	22	0.05	44757	99.04
792	206	0.46	40940	90.59	837	28	0.06	44785	99.10
793	188	0.42	41128	91.01	838	21	0.05	44806	99.15
794	177	0.39	41305	91.40	839	20	0.04	44826	99.19
795	165	0.37	41470	91.77	840	18	0.04	44844	99.23
796	153	0.34	41623	92.10	841	19	0.04	44863	99.27
797	155	0.34	41778	92.45	842	21	0.05	44884	99.32
798	160	0.35	41938	92.80	843	28	0.06	44912	99.38
799	148	0.33	42086	93.13	844	25	0.06	44937	99.44
800	137	0.30	42223	93.43	845	9	0.02	44946	99.46
801	140	0.31	42363	93.74	846	17	0.04	44963	99.50
802	131	0.29	42494	94.03	847	14	0.03	44977	99.53
803	133	0.29	42627	94.33	848	11	0.02	44988	99.55
804	133	0.29	42760	94.62	849	10	0.02	44998	99.57
805	114	0.25	42874	94.87	850	193	0.43	45191	100.00
806	100	0.22	42974	95.09					
807	99	0.22	43073	95.31					
808	112	0.25	43185	95.56					
809	93	0.21	43278	95.77					
810	102	0.23	43380	95.99					
811	94	0.21	43474	96.20					
812	89	0.20	43563	96.40					
813	83	0.18	43646	96.58					
814	75	0.17	43721	96.75					
815	73	0.16	43794	96.91					
816	60	0.13	43854	97.04					
817	77	0.17	43931	97.21					
818	60	0.13	43991	97.34					
819	53	0.12	44044	97.46					
820	72	0.16	44116	97.62					
821	55	0.12	44171	97.74					
822	61	0.13	44232	97.88					
823	53	0.12	44285	98.00					
824	53	0.12	44338	98.11					
825	49	0.11	44387	98.22					
826	48	0.11	44435	98.33					
827	31	0.07	44466	98.40					
828	49	0.11	44515	98.50					
829	30	0.07	44545	98.57					

**Table 75. ELA Grade 4 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>650</b>	48	0.84	48	0.84	<b>696</b>	23	0.40	627	10.95	<b>741</b>	55	0.96	2546	44.47
<b>651</b>	5	0.09	53	0.93	<b>697</b>	29	0.51	656	11.46	<b>742</b>	59	1.03	2605	45.50
<b>652</b>	6	0.10	59	1.03	<b>698</b>	27	0.47	683	11.93	<b>743</b>	62	1.08	2667	46.59
<b>653</b>	6	0.10	65	1.14	<b>699</b>	25	0.44	708	12.37	<b>744</b>	63	1.10	2730	47.69
<b>654</b>	3	0.05	68	1.19	<b>700</b>	32	0.56	740	12.93	<b>745</b>	73	1.28	2803	48.96
<b>655</b>	2	0.03	70	1.22	<b>701</b>	20	0.35	760	13.28	<b>746</b>	59	1.03	2862	49.99
<b>657</b>	2	0.03	72	1.26	<b>702</b>	31	0.54	791	13.82	<b>747</b>	84	1.47	2946	51.46
<b>658</b>	4	0.07	76	1.33	<b>703</b>	36	0.63	827	14.45	<b>748</b>	71	1.24	3017	52.70
<b>659</b>	5	0.09	81	1.41	<b>704</b>	33	0.58	860	15.02	<b>749</b>	78	1.36	3095	54.06
<b>660</b>	4	0.07	85	1.48	<b>705</b>	20	0.35	880	15.37	<b>750</b>	68	1.19	3163	55.25
<b>661</b>	5	0.09	90	1.57	<b>706</b>	30	0.52	910	15.90	<b>751</b>	75	1.31	3238	56.56
<b>662</b>	5	0.09	95	1.66	<b>707</b>	47	0.82	957	16.72	<b>752</b>	76	1.33	3314	57.89
<b>663</b>	2	0.03	97	1.69	<b>708</b>	30	0.52	987	17.24	<b>753</b>	71	1.24	3385	59.13
<b>664</b>	6	0.10	103	1.80	<b>709</b>	29	0.51	1016	17.75	<b>754</b>	80	1.40	3465	60.52
<b>665</b>	7	0.12	110	1.92	<b>710</b>	27	0.47	1043	18.22	<b>755</b>	75	1.31	3540	61.83
<b>666</b>	7	0.12	117	2.04	<b>711</b>	37	0.65	1080	18.86	<b>756</b>	69	1.21	3609	63.04
<b>667</b>	5	0.09	122	2.13	<b>712</b>	32	0.56	1112	19.42	<b>757</b>	69	1.21	3678	64.24
<b>668</b>	12	0.21	134	2.34	<b>713</b>	35	0.61	1147	20.03	<b>758</b>	81	1.41	3759	65.66
<b>669</b>	9	0.16	143	2.50	<b>714</b>	41	0.72	1188	20.75	<b>759</b>	62	1.08	3821	66.74
<b>670</b>	10	0.17	153	2.67	<b>715</b>	34	0.59	1222	21.34	<b>760</b>	83	1.45	3904	68.19
<b>671</b>	13	0.23	166	2.90	<b>716</b>	50	0.87	1272	22.22	<b>761</b>	80	1.40	3984	69.59
<b>672</b>	18	0.31	184	3.21	<b>717</b>	39	0.68	1311	22.90	<b>762</b>	74	1.29	4058	70.88
<b>673</b>	7	0.12	191	3.34	<b>718</b>	41	0.72	1352	23.62	<b>763</b>	75	1.31	4133	72.19
<b>674</b>	16	0.28	207	3.62	<b>719</b>	41	0.72	1393	24.33	<b>764</b>	67	1.17	4200	73.36
<b>675</b>	8	0.14	215	3.76	<b>720</b>	32	0.56	1425	24.89	<b>765</b>	55	0.96	4255	74.32
<b>676</b>	16	0.28	231	4.03	<b>721</b>	25	0.44	1450	25.33	<b>766</b>	69	1.21	4324	75.53
<b>677</b>	13	0.23	244	4.26	<b>722</b>	56	0.98	1506	26.31	<b>767</b>	64	1.12	4388	76.65
<b>678</b>	22	0.38	266	4.65	<b>723</b>	58	1.01	1564	27.32	<b>768</b>	62	1.08	4450	77.73
<b>679</b>	11	0.19	277	4.84	<b>724</b>	49	0.86	1613	28.17	<b>769</b>	44	0.77	4494	78.50
<b>680</b>	18	0.31	295	5.15	<b>725</b>	50	0.87	1663	29.05	<b>770</b>	66	1.15	4560	79.65
<b>681</b>	17	0.30	312	5.45	<b>726</b>	54	0.94	1717	29.99	<b>771</b>	49	0.86	4609	80.51
<b>682</b>	16	0.28	328	5.73	<b>727</b>	46	0.80	1763	30.79	<b>772</b>	64	1.12	4673	81.62
<b>683</b>	23	0.40	351	6.13	<b>728</b>	40	0.70	1803	31.49	<b>773</b>	51	0.89	4724	82.52
<b>684</b>	19	0.33	370	6.46	<b>729</b>	52	0.91	1855	32.40	<b>774</b>	55	0.96	4779	83.48
<b>685</b>	13	0.23	383	6.69	<b>730</b>	52	0.91	1907	33.31	<b>775</b>	52	0.91	4831	84.38
<b>686</b>	23	0.40	406	7.09	<b>731</b>	56	0.98	1963	34.29	<b>776</b>	51	0.89	4882	85.28
<b>687</b>	23	0.40	429	7.49	<b>732</b>	41	0.72	2004	35.00	<b>777</b>	36	0.63	4918	85.90
<b>688</b>	15	0.26	444	7.76	<b>733</b>	54	0.94	2058	35.95	<b>778</b>	32	0.56	4950	86.46
<b>689</b>	20	0.35	464	8.10	<b>734</b>	55	0.96	2113	36.91	<b>779</b>	53	0.93	5003	87.39
<b>690</b>	14	0.24	478	8.35	<b>735</b>	65	1.14	2178	38.04	<b>780</b>	41	0.72	5044	88.10
<b>691</b>	21	0.37	499	8.72	<b>736</b>	59	1.03	2237	39.07	<b>781</b>	48	0.84	5092	88.94
<b>692</b>	25	0.44	524	9.15	<b>737</b>	56	0.98	2293	40.05	<b>782</b>	31	0.54	5123	89.48
<b>693</b>	35	0.61	559	9.76	<b>738</b>	70	1.22	2363	41.28	<b>783</b>	42	0.73	5165	90.22
<b>694</b>	22	0.38	581	10.15	<b>739</b>	44	0.77	2407	42.04	<b>784</b>	28	0.49	5193	90.71
<b>695</b>	23	0.40	604	10.55	<b>740</b>	84	1.47	2491	43.51	<b>785</b>	32	0.56	5225	91.27

**Table 76. ELA Grade 4 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>786</b>	27	0.47	5252	91.74	<b>833</b>	4	0.07	5706	99.67
<b>787</b>	41	0.72	5293	92.45	<b>834</b>	2	0.03	5708	99.70
<b>788</b>	34	0.59	5327	93.05	<b>836</b>	1	0.02	5709	99.72
<b>789</b>	28	0.49	5355	93.54	<b>837</b>	4	0.07	5713	99.79
<b>790</b>	14	0.24	5369	93.78	<b>838</b>	1	0.02	5714	99.81
<b>791</b>	20	0.35	5389	94.13	<b>840</b>	1	0.02	5715	99.83
<b>792</b>	13	0.23	5402	94.36	<b>841</b>	1	0.02	5716	99.84
<b>793</b>	15	0.26	5417	94.62	<b>843</b>	1	0.02	5717	99.86
<b>794</b>	25	0.44	5442	95.06	<b>844</b>	1	0.02	5718	99.88
<b>795</b>	15	0.26	5457	95.32	<b>847</b>	1	0.02	5719	99.90
<b>796</b>	14	0.24	5471	95.56	<b>848</b>	1	0.02	5720	99.91
<b>797</b>	9	0.16	5480	95.72	<b>850</b>	5	0.09	5725	100.00
<b>798</b>	19	0.33	5499	96.05					
<b>799</b>	7	0.12	5506	96.17					
<b>800</b>	14	0.24	5520	96.42					
<b>801</b>	8	0.14	5528	96.56					
<b>802</b>	13	0.23	5541	96.79					
<b>803</b>	10	0.17	5551	96.96					
<b>804</b>	6	0.10	5557	97.07					
<b>805</b>	15	0.26	5572	97.33					
<b>806</b>	18	0.31	5590	97.64					
<b>807</b>	4	0.07	5594	97.71					
<b>808</b>	14	0.24	5608	97.96					
<b>809</b>	6	0.10	5614	98.06					
<b>810</b>	9	0.16	5623	98.22					
<b>811</b>	4	0.07	5627	98.29					
<b>812</b>	7	0.12	5634	98.41					
<b>813</b>	6	0.10	5640	98.52					
<b>815</b>	8	0.14	5648	98.66					
<b>816</b>	6	0.10	5654	98.76					
<b>817</b>	3	0.05	5657	98.81					
<b>818</b>	2	0.03	5659	98.85					
<b>819</b>	4	0.07	5663	98.92					
<b>820</b>	4	0.07	5667	98.99					
<b>821</b>	5	0.09	5672	99.07					
<b>822</b>	3	0.05	5675	99.13					
<b>823</b>	5	0.09	5680	99.21					
<b>824</b>	3	0.05	5683	99.27					
<b>825</b>	5	0.09	5688	99.35					
<b>826</b>	2	0.03	5690	99.39					
<b>827</b>	2	0.03	5692	99.42					
<b>828</b>	3	0.05	5695	99.48					
<b>829</b>	3	0.05	5698	99.53					
<b>830</b>	1	0.02	5699	99.55					
<b>831</b>	3	0.05	5702	99.60					

**Table 77. ELA Grade 5 Scale Score Distribution**

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>
<b>650</b>	123	0.26	123	0.26	<b>695</b>	190	0.40	2778	5.92	<b>740</b>	490	1.04	20100	42.84
<b>651</b>	8	0.02	131	0.28	<b>696</b>	174	0.37	2952	6.29	<b>741</b>	507	1.08	20607	43.92
<b>652</b>	7	0.01	138	0.29	<b>697</b>	228	0.49	3180	6.78	<b>742</b>	481	1.03	21088	44.95
<b>653</b>	7	0.01	145	0.31	<b>698</b>	208	0.44	3388	7.22	<b>743</b>	505	1.08	21593	46.02
<b>654</b>	11	0.02	156	0.33	<b>699</b>	207	0.44	3595	7.66	<b>744</b>	538	1.15	22131	47.17
<b>655</b>	5	0.01	161	0.34	<b>700</b>	236	0.50	3831	8.17	<b>745</b>	543	1.16	22674	48.33
<b>656</b>	9	0.02	170	0.36	<b>701</b>	254	0.54	4085	8.71	<b>746</b>	519	1.11	23193	49.43
<b>657</b>	4	0.01	174	0.37	<b>702</b>	277	0.59	4362	9.30	<b>747</b>	512	1.09	23705	50.53
<b>658</b>	11	0.02	185	0.39	<b>703</b>	272	0.58	4634	9.88	<b>748</b>	555	1.18	24260	51.71
<b>659</b>	15	0.03	200	0.43	<b>704</b>	290	0.62	4924	10.50	<b>749</b>	520	1.11	24780	52.82
<b>660</b>	14	0.03	214	0.46	<b>705</b>	323	0.69	5247	11.18	<b>750</b>	561	1.20	25341	54.01
<b>661</b>	13	0.03	227	0.48	<b>706</b>	317	0.68	5564	11.86	<b>751</b>	494	1.05	25835	55.07
<b>662</b>	11	0.02	238	0.51	<b>707</b>	326	0.69	5890	12.55	<b>752</b>	522	1.11	26357	56.18
<b>663</b>	20	0.04	258	0.55	<b>708</b>	309	0.66	6199	13.21	<b>753</b>	529	1.13	26886	57.31
<b>664</b>	17	0.04	275	0.59	<b>709</b>	326	0.69	6525	13.91	<b>754</b>	537	1.14	27423	58.45
<b>665</b>	18	0.04	293	0.62	<b>710</b>	368	0.78	6893	14.69	<b>755</b>	531	1.13	27954	59.58
<b>666</b>	23	0.05	316	0.67	<b>711</b>	382	0.81	7275	15.51	<b>756</b>	521	1.11	28475	60.69
<b>667</b>	32	0.07	348	0.74	<b>712</b>	351	0.75	7626	16.25	<b>757</b>	538	1.15	29013	61.84
<b>668</b>	26	0.06	374	0.80	<b>713</b>	359	0.77	7985	17.02	<b>758</b>	522	1.11	29535	62.95
<b>669</b>	33	0.07	407	0.87	<b>714</b>	391	0.83	8376	17.85	<b>759</b>	524	1.12	30059	64.07
<b>670</b>	29	0.06	436	0.93	<b>715</b>	375	0.80	8751	18.65	<b>760</b>	501	1.07	30560	65.14
<b>671</b>	22	0.05	458	0.98	<b>716</b>	411	0.88	9162	19.53	<b>761</b>	516	1.10	31076	66.24
<b>672</b>	36	0.08	494	1.05	<b>717</b>	428	0.91	9590	20.44	<b>762</b>	509	1.08	31585	67.32
<b>673</b>	44	0.09	538	1.15	<b>718</b>	374	0.80	9964	21.24	<b>763</b>	483	1.03	32068	68.35
<b>674</b>	52	0.11	590	1.26	<b>719</b>	424	0.90	10388	22.14	<b>764</b>	458	0.98	32526	69.33
<b>675</b>	45	0.10	635	1.35	<b>720</b>	439	0.94	10827	23.08	<b>765</b>	538	1.15	33064	70.47
<b>676</b>	39	0.08	674	1.44	<b>721</b>	421	0.90	11248	23.97	<b>766</b>	522	1.11	33586	71.59
<b>677</b>	71	0.15	745	1.59	<b>722</b>	459	0.98	11707	24.95	<b>767</b>	545	1.16	34131	72.75
<b>678</b>	61	0.13	806	1.72	<b>723</b>	451	0.96	12158	25.91	<b>768</b>	496	1.06	34627	73.80
<b>679</b>	59	0.13	865	1.84	<b>724</b>	452	0.96	12610	26.88	<b>769</b>	519	1.11	35146	74.91
<b>680</b>	77	0.16	942	2.01	<b>725</b>	441	0.94	13051	27.82	<b>770</b>	511	1.09	35657	76.00
<b>681</b>	67	0.14	1009	2.15	<b>726</b>	473	1.01	13524	28.83	<b>771</b>	460	0.98	36117	76.98
<b>682</b>	73	0.16	1082	2.31	<b>727</b>	430	0.92	13954	29.74	<b>772</b>	470	1.00	36587	77.98
<b>683</b>	76	0.16	1158	2.47	<b>728</b>	457	0.97	14411	30.72	<b>773</b>	467	1.00	37054	78.98
<b>684</b>	106	0.23	1264	2.69	<b>729</b>	474	1.01	14885	31.73	<b>774</b>	439	0.94	37493	79.91
<b>685</b>	99	0.21	1363	2.91	<b>730</b>	492	1.05	15377	32.77	<b>775</b>	440	0.94	37933	80.85
<b>686</b>	98	0.21	1461	3.11	<b>731</b>	466	0.99	15843	33.77	<b>776</b>	465	0.99	38398	81.84
<b>687</b>	87	0.19	1548	3.30	<b>732</b>	460	0.98	16303	34.75	<b>777</b>	400	0.85	38798	82.69
<b>688</b>	133	0.28	1681	3.58	<b>733</b>	445	0.95	16748	35.70	<b>778</b>	416	0.89	39214	83.58
<b>689</b>	135	0.29	1816	3.87	<b>734</b>	461	0.98	17209	36.68	<b>779</b>	396	0.84	39610	84.43
<b>690</b>	142	0.30	1958	4.17	<b>735</b>	443	0.94	17652	37.62	<b>780</b>	389	0.83	39999	85.25
<b>691</b>	124	0.26	2082	4.44	<b>736</b>	492	1.05	18144	38.67	<b>781</b>	380	0.81	40379	86.06
<b>692</b>	162	0.35	2244	4.78	<b>737</b>	491	1.05	18635	39.72	<b>782</b>	355	0.76	40734	86.82
<b>693</b>	175	0.37	2419	5.16	<b>738</b>	499	1.06	19134	40.78	<b>783</b>	331	0.71	41065	87.53
<b>694</b>	169	0.36	2588	5.52	<b>739</b>	476	1.01	19610	41.80	<b>784</b>	329	0.70	41394	88.23

**Table 78. ELA Grade 5 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>785</b>	304	0.65	41698	88.88	<b>830</b>	14	0.03	46783	99.71
<b>786</b>	320	0.68	42018	89.56	<b>831</b>	9	0.02	46792	99.73
<b>787</b>	290	0.62	42308	90.18	<b>832</b>	11	0.02	46803	99.76
<b>788</b>	308	0.66	42616	90.83	<b>833</b>	5	0.01	46808	99.77
<b>789</b>	277	0.59	42893	91.42	<b>834</b>	12	0.03	46820	99.79
<b>790</b>	247	0.53	43140	91.95	<b>835</b>	6	0.01	46826	99.81
<b>791</b>	253	0.54	43393	92.49	<b>836</b>	7	0.01	46833	99.82
<b>792</b>	230	0.49	43623	92.98	<b>837</b>	15	0.03	46848	99.85
<b>793</b>	207	0.44	43830	93.42	<b>838</b>	10	0.02	46858	99.87
<b>794</b>	186	0.40	44016	93.82	<b>839</b>	4	0.01	46862	99.88
<b>795</b>	201	0.43	44217	94.25	<b>840</b>	7	0.01	46869	99.90
<b>796</b>	210	0.45	44427	94.69	<b>842</b>	5	0.01	46874	99.91
<b>797</b>	163	0.35	44590	95.04	<b>843</b>	1	0.00	46875	99.91
<b>798</b>	156	0.33	44746	95.37	<b>844</b>	3	0.01	46878	99.92
<b>799</b>	165	0.35	44911	95.72	<b>845</b>	2	0.00	46880	99.92
<b>800</b>	161	0.34	45072	96.07	<b>846</b>	3	0.01	46883	99.93
<b>801</b>	137	0.29	45209	96.36	<b>847</b>	2	0.00	46885	99.93
<b>802</b>	126	0.27	45335	96.63	<b>848</b>	4	0.01	46889	99.94
<b>803</b>	118	0.25	45453	96.88	<b>849</b>	5	0.01	46894	99.95
<b>804</b>	120	0.26	45573	97.14	<b>850</b>	23	0.05	46917	100.00
<b>805</b>	95	0.20	45668	97.34					
<b>806</b>	87	0.19	45755	97.52					
<b>807</b>	98	0.21	45853	97.73					
<b>808</b>	87	0.19	45940	97.92					
<b>809</b>	77	0.16	46017	98.08					
<b>810</b>	78	0.17	46095	98.25					
<b>811</b>	74	0.16	46169	98.41					
<b>812</b>	59	0.13	46228	98.53					
<b>813</b>	50	0.11	46278	98.64					
<b>814</b>	44	0.09	46322	98.73					
<b>815</b>	47	0.10	46369	98.83					
<b>816</b>	41	0.09	46410	98.92					
<b>817</b>	47	0.10	46457	99.02					
<b>818</b>	51	0.11	46508	99.13					
<b>819</b>	29	0.06	46537	99.19					
<b>820</b>	37	0.08	46574	99.27					
<b>821</b>	31	0.07	46605	99.33					
<b>822</b>	21	0.04	46626	99.38					
<b>823</b>	27	0.06	46653	99.44					
<b>824</b>	23	0.05	46676	99.49					
<b>825</b>	14	0.03	46690	99.52					
<b>826</b>	23	0.05	46713	99.57					
<b>827</b>	18	0.04	46731	99.60					
<b>828</b>	14	0.03	46745	99.63					
<b>829</b>	24	0.05	46769	99.68					

**Table 79. ELA Grade 6 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>650</b>	24	0.44	24	0.44	<b>696</b>	20	0.37	467	8.59	<b>741</b>	77	1.42	2924	53.76
<b>651</b>	2	0.04	26	0.48	<b>697</b>	19	0.35	486	8.94	<b>742</b>	74	1.36	2998	55.12
<b>653</b>	1	0.02	27	0.50	<b>698</b>	27	0.50	513	9.43	<b>743</b>	64	1.18	3062	56.30
<b>654</b>	1	0.02	28	0.51	<b>699</b>	33	0.61	546	10.04	<b>744</b>	72	1.32	3134	57.62
<b>655</b>	1	0.02	29	0.53	<b>700</b>	32	0.59	578	10.63	<b>745</b>	66	1.21	3200	58.83
<b>656</b>	4	0.07	33	0.61	<b>701</b>	29	0.53	607	11.16	<b>746</b>	46	0.85	3246	59.68
<b>657</b>	3	0.06	36	0.66	<b>702</b>	32	0.59	639	11.75	<b>747</b>	75	1.38	3321	61.06
<b>658</b>	3	0.06	39	0.72	<b>703</b>	33	0.61	672	12.36	<b>748</b>	63	1.16	3384	62.22
<b>659</b>	2	0.04	41	0.75	<b>704</b>	35	0.64	707	13.00	<b>749</b>	68	1.25	3452	63.47
<b>660</b>	3	0.06	44	0.81	<b>705</b>	35	0.64	742	13.64	<b>750</b>	63	1.16	3515	64.63
<b>661</b>	1	0.02	45	0.83	<b>706</b>	49	0.90	791	14.54	<b>751</b>	53	0.97	3568	65.60
<b>662</b>	1	0.02	46	0.85	<b>707</b>	42	0.77	833	15.32	<b>752</b>	71	1.31	3639	66.91
<b>663</b>	5	0.09	51	0.94	<b>708</b>	36	0.66	869	15.98	<b>753</b>	71	1.31	3710	68.21
<b>664</b>	4	0.07	55	1.01	<b>709</b>	43	0.79	912	16.77	<b>754</b>	60	1.10	3770	69.31
<b>665</b>	6	0.11	61	1.12	<b>710</b>	52	0.96	964	17.72	<b>755</b>	63	1.16	3833	70.47
<b>666</b>	1	0.02	62	1.14	<b>711</b>	45	0.83	1009	18.55	<b>756</b>	67	1.23	3900	71.70
<b>667</b>	4	0.07	66	1.21	<b>712</b>	53	0.97	1062	19.53	<b>757</b>	63	1.16	3963	72.86
<b>668</b>	3	0.06	69	1.27	<b>713</b>	52	0.96	1114	20.48	<b>758</b>	62	1.14	4025	74.00
<b>669</b>	4	0.07	73	1.34	<b>714</b>	52	0.96	1166	21.44	<b>759</b>	60	1.10	4085	75.11
<b>670</b>	7	0.13	80	1.47	<b>715</b>	47	0.86	1213	22.30	<b>760</b>	56	1.03	4141	76.14
<b>671</b>	2	0.04	82	1.51	<b>716</b>	65	1.20	1278	23.50	<b>761</b>	65	1.20	4206	77.33
<b>672</b>	8	0.15	90	1.65	<b>717</b>	57	1.05	1335	24.54	<b>762</b>	67	1.23	4273	78.56
<b>673</b>	5	0.09	95	1.75	<b>718</b>	55	1.01	1390	25.56	<b>763</b>	45	0.83	4318	79.39
<b>674</b>	7	0.13	102	1.88	<b>719</b>	50	0.92	1440	26.48	<b>764</b>	51	0.94	4369	80.33
<b>675</b>	11	0.20	113	2.08	<b>720</b>	64	1.18	1504	27.65	<b>765</b>	47	0.86	4416	81.19
<b>676</b>	12	0.22	125	2.30	<b>721</b>	64	1.18	1568	28.83	<b>766</b>	64	1.18	4480	82.37
<b>677</b>	11	0.20	136	2.50	<b>722</b>	71	1.31	1639	30.13	<b>767</b>	40	0.74	4520	83.10
<b>678</b>	6	0.11	142	2.61	<b>723</b>	70	1.29	1709	31.42	<b>768</b>	47	0.86	4567	83.97
<b>679</b>	13	0.24	155	2.85	<b>724</b>	69	1.27	1778	32.69	<b>769</b>	55	1.01	4622	84.98
<b>680</b>	12	0.22	167	3.07	<b>725</b>	50	0.92	1828	33.61	<b>770</b>	36	0.66	4658	85.64
<b>681</b>	12	0.22	179	3.29	<b>726</b>	66	1.21	1894	34.82	<b>771</b>	37	0.68	4695	86.32
<b>682</b>	13	0.24	192	3.53	<b>727</b>	70	1.29	1964	36.11	<b>772</b>	36	0.66	4731	86.98
<b>683</b>	16	0.29	208	3.82	<b>728</b>	56	1.03	2020	37.14	<b>773</b>	43	0.79	4774	87.77
<b>684</b>	19	0.35	227	4.17	<b>729</b>	57	1.05	2077	38.19	<b>774</b>	44	0.81	4818	88.58
<b>685</b>	20	0.37	247	4.54	<b>730</b>	70	1.29	2147	39.47	<b>775</b>	38	0.70	4856	89.28
<b>686</b>	21	0.39	268	4.93	<b>731</b>	86	1.58	2233	41.06	<b>776</b>	37	0.68	4893	89.96
<b>687</b>	17	0.31	285	5.24	<b>732</b>	62	1.14	2295	42.20	<b>777</b>	37	0.68	4930	90.64
<b>688</b>	15	0.28	300	5.52	<b>733</b>	55	1.01	2350	43.21	<b>778</b>	36	0.66	4966	91.30
<b>689</b>	21	0.39	321	5.90	<b>734</b>	69	1.27	2419	44.48	<b>779</b>	23	0.42	4989	91.73
<b>690</b>	21	0.39	342	6.29	<b>735</b>	68	1.25	2487	45.73	<b>780</b>	34	0.63	5023	92.35
<b>691</b>	23	0.42	365	6.71	<b>736</b>	74	1.36	2561	47.09	<b>781</b>	20	0.37	5043	92.72
<b>692</b>	28	0.51	393	7.23	<b>737</b>	64	1.18	2625	48.26	<b>782</b>	30	0.55	5073	93.27
<b>693</b>	21	0.39	414	7.61	<b>738</b>	81	1.49	2706	49.75	<b>783</b>	23	0.42	5096	93.69
<b>694</b>	22	0.40	436	8.02	<b>739</b>	70	1.29	2776	51.04	<b>784</b>	19	0.35	5115	94.04
<b>695</b>	11	0.20	447	8.22	<b>740</b>	71	1.31	2847	52.34	<b>785</b>	28	0.51	5143	94.56

**Table 80. ELA Grade 6 Scale Score Distribution (continued)**

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>
<b>786</b>	14	0.26	5157	94.82
<b>787</b>	17	0.31	5174	95.13
<b>788</b>	23	0.42	5197	95.55
<b>789</b>	17	0.31	5214	95.86
<b>790</b>	22	0.40	5236	96.27
<b>791</b>	15	0.28	5251	96.54
<b>792</b>	18	0.33	5269	96.87
<b>793</b>	10	0.18	5279	97.06
<b>794</b>	10	0.18	5289	97.24
<b>795</b>	17	0.31	5306	97.55
<b>796</b>	4	0.07	5310	97.63
<b>797</b>	2	0.04	5312	97.67
<b>798</b>	12	0.22	5324	97.89
<b>799</b>	13	0.24	5337	98.12
<b>800</b>	7	0.13	5344	98.25
<b>801</b>	10	0.18	5354	98.44
<b>802</b>	7	0.13	5361	98.57
<b>803</b>	7	0.13	5368	98.69
<b>804</b>	7	0.13	5375	98.82
<b>805</b>	10	0.18	5385	99.01
<b>806</b>	3	0.06	5388	99.06
<b>807</b>	6	0.11	5394	99.17
<b>808</b>	5	0.09	5399	99.26
<b>809</b>	5	0.09	5404	99.36
<b>810</b>	5	0.09	5409	99.45
<b>811</b>	1	0.02	5410	99.47
<b>812</b>	2	0.04	5412	99.50
<b>813</b>	2	0.04	5414	99.54
<b>814</b>	2	0.04	5416	99.58
<b>816</b>	3	0.06	5419	99.63
<b>817</b>	4	0.07	5423	99.71
<b>819</b>	4	0.07	5427	99.78
<b>820</b>	2	0.04	5429	99.82
<b>821</b>	1	0.02	5430	99.83
<b>822</b>	1	0.02	5431	99.85
<b>823</b>	2	0.04	5433	99.89
<b>826</b>	2	0.04	5435	99.93
<b>827</b>	1	0.02	5436	99.94
<b>830</b>	1	0.02	5437	99.96
<b>831</b>	1	0.02	5438	99.98
<b>850</b>	1	0.02	5439	100.00

**Table 81. ELA Grade 7 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>650</b>	252	0.59	252	0.59	<b>695</b>	238	0.55	4764	11.10	<b>740</b>	448	1.04	20632	48.06
<b>651</b>	15	0.03	267	0.62	<b>696</b>	230	0.54	4994	11.63	<b>741</b>	448	1.04	21080	49.10
<b>652</b>	19	0.04	286	0.67	<b>697</b>	243	0.57	5237	12.20	<b>742</b>	434	1.01	21514	50.11
<b>653</b>	18	0.04	304	0.71	<b>698</b>	239	0.56	5476	12.75	<b>743</b>	449	1.05	21963	51.16
<b>654</b>	19	0.04	323	0.75	<b>699</b>	247	0.58	5723	13.33	<b>744</b>	440	1.02	22403	52.18
<b>655</b>	16	0.04	339	0.79	<b>700</b>	229	0.53	5952	13.86	<b>745</b>	431	1.00	22834	53.18
<b>656</b>	18	0.04	357	0.83	<b>701</b>	257	0.60	6209	14.46	<b>746</b>	458	1.07	23292	54.25
<b>657</b>	31	0.07	388	0.90	<b>702</b>	261	0.61	6470	15.07	<b>747</b>	431	1.00	23723	55.25
<b>658</b>	32	0.07	420	0.98	<b>703</b>	247	0.58	6717	15.64	<b>748</b>	477	1.11	24200	56.37
<b>659</b>	45	0.10	465	1.08	<b>704</b>	287	0.67	7004	16.31	<b>749</b>	432	1.01	24632	57.37
<b>660</b>	35	0.08	500	1.16	<b>705</b>	287	0.67	7291	16.98	<b>750</b>	462	1.08	25094	58.45
<b>661</b>	47	0.11	547	1.27	<b>706</b>	309	0.72	7600	17.70	<b>751</b>	462	1.08	25556	59.52
<b>662</b>	36	0.08	583	1.36	<b>707</b>	296	0.69	7896	18.39	<b>752</b>	454	1.06	26010	60.58
<b>663</b>	41	0.10	624	1.45	<b>708</b>	325	0.76	8221	19.15	<b>753</b>	409	0.95	26419	61.53
<b>664</b>	41	0.10	665	1.55	<b>709</b>	315	0.73	8536	19.88	<b>754</b>	417	0.97	26836	62.51
<b>665</b>	66	0.15	731	1.70	<b>710</b>	312	0.73	8848	20.61	<b>755</b>	423	0.99	27259	63.49
<b>666</b>	61	0.14	792	1.84	<b>711</b>	356	0.83	9204	21.44	<b>756</b>	431	1.00	27690	64.49
<b>667</b>	65	0.15	857	2.00	<b>712</b>	353	0.82	9557	22.26	<b>757</b>	414	0.96	28104	65.46
<b>668</b>	63	0.15	920	2.14	<b>713</b>	352	0.82	9909	23.08	<b>758</b>	419	0.98	28523	66.43
<b>669</b>	61	0.14	981	2.28	<b>714</b>	365	0.85	10274	23.93	<b>759</b>	411	0.96	28934	67.39
<b>670</b>	76	0.18	1057	2.46	<b>715</b>	347	0.81	10621	24.74	<b>760</b>	398	0.93	29332	68.32
<b>671</b>	69	0.16	1126	2.62	<b>716</b>	366	0.85	10987	25.59	<b>761</b>	423	0.99	29755	69.30
<b>672</b>	90	0.21	1216	2.83	<b>717</b>	335	0.78	11322	26.37	<b>762</b>	409	0.95	30164	70.26
<b>673</b>	91	0.21	1307	3.04	<b>718</b>	361	0.84	11683	27.21	<b>763</b>	401	0.93	30565	71.19
<b>674</b>	89	0.21	1396	3.25	<b>719</b>	375	0.87	12058	28.08	<b>764</b>	396	0.92	30961	72.11
<b>675</b>	107	0.25	1503	3.50	<b>720</b>	363	0.85	12421	28.93	<b>765</b>	390	0.91	31351	73.02
<b>676</b>	119	0.28	1622	3.78	<b>721</b>	375	0.87	12796	29.80	<b>766</b>	397	0.92	31748	73.95
<b>677</b>	117	0.27	1739	4.05	<b>722</b>	363	0.85	13159	30.65	<b>767</b>	409	0.95	32157	74.90
<b>678</b>	100	0.23	1839	4.28	<b>723</b>	391	0.91	13550	31.56	<b>768</b>	385	0.90	32542	75.80
<b>679</b>	112	0.26	1951	4.54	<b>724</b>	364	0.85	13914	32.41	<b>769</b>	334	0.78	32876	76.57
<b>680</b>	143	0.33	2094	4.88	<b>725</b>	386	0.90	14300	33.31	<b>770</b>	348	0.81	33224	77.38
<b>681</b>	143	0.33	2237	5.21	<b>726</b>	413	0.96	14713	34.27	<b>771</b>	333	0.78	33557	78.16
<b>682</b>	137	0.32	2374	5.53	<b>727</b>	397	0.92	15110	35.19	<b>772</b>	345	0.80	33902	78.96
<b>683</b>	146	0.34	2520	5.87	<b>728</b>	395	0.92	15505	36.11	<b>773</b>	311	0.72	34213	79.69
<b>684</b>	138	0.32	2658	6.19	<b>729</b>	448	1.04	15953	37.16	<b>774</b>	332	0.77	34545	80.46
<b>685</b>	175	0.41	2833	6.60	<b>730</b>	422	0.98	16375	38.14	<b>775</b>	320	0.75	34865	81.21
<b>686</b>	141	0.33	2974	6.93	<b>731</b>	403	0.94	16778	39.08	<b>776</b>	313	0.73	35178	81.94
<b>687</b>	167	0.39	3141	7.32	<b>732</b>	424	0.99	17202	40.07	<b>777</b>	323	0.75	35501	82.69
<b>688</b>	184	0.43	3325	7.74	<b>733</b>	427	0.99	17629	41.06	<b>778</b>	291	0.68	35792	83.37
<b>689</b>	204	0.48	3529	8.22	<b>734</b>	415	0.97	18044	42.03	<b>779</b>	265	0.62	36057	83.98
<b>690</b>	206	0.48	3735	8.70	<b>735</b>	425	0.99	18469	43.02	<b>780</b>	282	0.66	36339	84.64
<b>691</b>	209	0.49	3944	9.19	<b>736</b>	429	1.00	18898	44.02	<b>781</b>	271	0.63	36610	85.27
<b>692</b>	210	0.49	4154	9.68	<b>737</b>	436	1.02	19334	45.03	<b>782</b>	252	0.59	36862	85.86
<b>693</b>	186	0.43	4340	10.11	<b>738</b>	429	1.00	19763	46.03	<b>783</b>	270	0.63	37132	86.49
<b>694</b>	186	0.43	4526	10.54	<b>739</b>	421	0.98	20184	47.01	<b>784</b>	227	0.53	37359	87.01

**Table 82. ELA Grade 7 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	262	0.61	37621	87.63	830	22	0.05	42610	99.25
786	261	0.61	37882	88.23	831	21	0.05	42631	99.29
787	239	0.56	38121	88.79	832	35	0.08	42666	99.38
788	199	0.46	38320	89.25	833	21	0.05	42687	99.42
789	179	0.42	38499	89.67	834	24	0.06	42711	99.48
790	207	0.48	38706	90.15	835	17	0.04	42728	99.52
791	217	0.51	38923	90.66	836	14	0.03	42742	99.55
792	175	0.41	39098	91.07	837	17	0.04	42759	99.59
793	203	0.47	39301	91.54	838	15	0.03	42774	99.63
794	175	0.41	39476	91.95	839	15	0.03	42789	99.66
795	198	0.46	39674	92.41	840	11	0.03	42800	99.69
796	180	0.42	39854	92.83	841	14	0.03	42814	99.72
797	179	0.42	40033	93.24	842	11	0.03	42825	99.75
798	141	0.33	40174	93.57	843	7	0.02	42832	99.76
799	131	0.31	40305	93.88	844	5	0.01	42837	99.77
800	145	0.34	40450	94.21	845	6	0.01	42843	99.79
801	151	0.35	40601	94.57	846	4	0.01	42847	99.80
802	133	0.31	40734	94.88	847	7	0.02	42854	99.81
803	128	0.30	40862	95.17	848	3	0.01	42857	99.82
804	118	0.27	40980	95.45	849	7	0.02	42864	99.84
805	125	0.29	41105	95.74	850	70	0.16	42934	100.00
806	107	0.25	41212	95.99					
807	98	0.23	41310	96.22					
808	97	0.23	41407	96.44					
809	110	0.26	41517	96.70					
810	82	0.19	41599	96.89					
811	81	0.19	41680	97.08					
812	69	0.16	41749	97.24					
813	89	0.21	41838	97.45					
814	75	0.17	41913	97.62					
815	62	0.14	41975	97.77					
816	64	0.15	42039	97.92					
817	69	0.16	42108	98.08					
818	63	0.15	42171	98.22					
819	45	0.10	42216	98.33					
820	55	0.13	42271	98.46					
821	50	0.12	42321	98.57					
822	47	0.11	42368	98.68					
823	38	0.09	42406	98.77					
824	40	0.09	42446	98.86					
825	24	0.06	42470	98.92					
826	31	0.07	42501	98.99					
827	32	0.07	42533	99.07					
828	28	0.07	42561	99.13					
829	27	0.06	42588	99.19					

**Table 83. ELA Grade 8 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
<b>650</b>	29	0.65	29	0.65	<b>695</b>	23	0.52	543	12.17	<b>740</b>	43	0.96	2039	45.69
<b>651</b>	2	0.04	31	0.69	<b>696</b>	21	0.47	564	12.64	<b>741</b>	52	1.17	2091	46.85
<b>652</b>	6	0.13	37	0.83	<b>697</b>	21	0.47	585	13.11	<b>742</b>	46	1.03	2137	47.88
<b>653</b>	5	0.11	42	0.94	<b>698</b>	24	0.54	609	13.65	<b>743</b>	54	1.21	2191	49.09
<b>654</b>	2	0.04	44	0.99	<b>699</b>	25	0.56	634	14.21	<b>744</b>	42	0.94	2233	50.03
<b>655</b>	6	0.13	50	1.12	<b>700</b>	31	0.69	665	14.90	<b>745</b>	60	1.34	2293	51.38
<b>656</b>	3	0.07	53	1.19	<b>701</b>	29	0.65	694	15.55	<b>746</b>	37	0.83	2330	52.21
<b>657</b>	3	0.07	56	1.25	<b>702</b>	25	0.56	719	16.11	<b>747</b>	43	0.96	2373	53.17
<b>658</b>	1	0.02	57	1.28	<b>703</b>	15	0.34	734	16.45	<b>748</b>	36	0.81	2409	53.98
<b>659</b>	5	0.11	62	1.39	<b>704</b>	32	0.72	766	17.16	<b>749</b>	45	1.01	2454	54.99
<b>660</b>	6	0.13	68	1.52	<b>705</b>	24	0.54	790	17.70	<b>750</b>	44	0.99	2498	55.97
<b>661</b>	2	0.04	70	1.57	<b>706</b>	30	0.67	820	18.37	<b>751</b>	44	0.99	2542	56.96
<b>662</b>	7	0.16	77	1.73	<b>707</b>	26	0.58	846	18.96	<b>752</b>	47	1.05	2589	58.01
<b>663</b>	4	0.09	81	1.81	<b>708</b>	25	0.56	871	19.52	<b>753</b>	44	0.99	2633	59.00
<b>664</b>	4	0.09	85	1.90	<b>709</b>	33	0.74	904	20.26	<b>754</b>	54	1.21	2687	60.21
<b>665</b>	6	0.13	91	2.04	<b>710</b>	27	0.60	931	20.86	<b>755</b>	50	1.12	2737	61.33
<b>666</b>	5	0.11	96	2.15	<b>711</b>	36	0.81	967	21.67	<b>756</b>	49	1.10	2786	62.42
<b>667</b>	5	0.11	101	2.26	<b>712</b>	30	0.67	997	22.34	<b>757</b>	54	1.21	2840	63.63
<b>668</b>	5	0.11	106	2.38	<b>713</b>	35	0.78	1032	23.12	<b>758</b>	57	1.28	2897	64.91
<b>669</b>	8	0.18	114	2.55	<b>714</b>	27	0.60	1059	23.73	<b>759</b>	47	1.05	2944	65.96
<b>670</b>	17	0.38	131	2.94	<b>715</b>	35	0.78	1094	24.51	<b>760</b>	38	0.85	2982	66.82
<b>671</b>	8	0.18	139	3.11	<b>716</b>	26	0.58	1120	25.10	<b>761</b>	41	0.92	3023	67.73
<b>672</b>	11	0.25	150	3.36	<b>717</b>	35	0.78	1155	25.88	<b>762</b>	32	0.72	3055	68.45
<b>673</b>	16	0.36	166	3.72	<b>718</b>	30	0.67	1185	26.55	<b>763</b>	52	1.17	3107	69.62
<b>674</b>	13	0.29	179	4.01	<b>719</b>	35	0.78	1220	27.34	<b>764</b>	37	0.83	3144	70.45
<b>675</b>	7	0.16	186	4.17	<b>720</b>	41	0.92	1261	28.25	<b>765</b>	42	0.94	3186	71.39
<b>676</b>	6	0.13	192	4.30	<b>721</b>	32	0.72	1293	28.97	<b>766</b>	45	1.01	3231	72.40
<b>677</b>	15	0.34	207	4.64	<b>722</b>	33	0.74	1326	29.71	<b>767</b>	35	0.78	3266	73.18
<b>678</b>	18	0.40	225	5.04	<b>723</b>	35	0.78	1361	30.50	<b>768</b>	37	0.83	3303	74.01
<b>679</b>	20	0.45	245	5.49	<b>724</b>	36	0.81	1397	31.30	<b>769</b>	42	0.94	3345	74.95
<b>680</b>	16	0.36	261	5.85	<b>725</b>	36	0.81	1433	32.11	<b>770</b>	35	0.78	3380	75.73
<b>681</b>	12	0.27	273	6.12	<b>726</b>	36	0.81	1469	32.92	<b>771</b>	36	0.81	3416	76.54
<b>682</b>	16	0.36	289	6.48	<b>727</b>	36	0.81	1505	33.72	<b>772</b>	34	0.76	3450	77.30
<b>683</b>	13	0.29	302	6.77	<b>728</b>	43	0.96	1548	34.69	<b>773</b>	32	0.72	3482	78.02
<b>684</b>	18	0.40	320	7.17	<b>729</b>	40	0.90	1588	35.58	<b>774</b>	32	0.72	3514	78.74
<b>685</b>	21	0.47	341	7.64	<b>730</b>	36	0.81	1624	36.39	<b>775</b>	41	0.92	3555	79.65
<b>686</b>	23	0.52	364	8.16	<b>731</b>	35	0.78	1659	37.17	<b>776</b>	31	0.69	3586	80.35
<b>687</b>	19	0.43	383	8.58	<b>732</b>	38	0.85	1697	38.02	<b>777</b>	31	0.69	3617	81.04
<b>688</b>	25	0.56	408	9.14	<b>733</b>	44	0.99	1741	39.01	<b>778</b>	36	0.81	3653	81.85
<b>689</b>	22	0.49	430	9.63	<b>734</b>	42	0.94	1783	39.95	<b>779</b>	36	0.81	3689	82.66
<b>690</b>	22	0.49	452	10.13	<b>735</b>	41	0.92	1824	40.87	<b>780</b>	30	0.67	3719	83.33
<b>691</b>	20	0.45	472	10.58	<b>736</b>	46	1.03	1870	41.90	<b>781</b>	28	0.63	3747	83.96
<b>692</b>	16	0.36	488	10.93	<b>737</b>	41	0.92	1911	42.82	<b>782</b>	41	0.92	3788	84.88
<b>693</b>	13	0.29	501	11.23	<b>738</b>	42	0.94	1953	43.76	<b>783</b>	29	0.65	3817	85.53
<b>694</b>	19	0.43	520	11.65	<b>739</b>	43	0.96	1996	44.72	<b>784</b>	25	0.56	3842	86.09

**Table 84. ELA Grade 8 Scale Score Distribution (continued)**

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	36	0.81	3878	86.89	831	3	0.07	4427	99.19
786	34	0.76	3912	87.65	832	2	0.04	4429	99.24
787	34	0.76	3946	88.42	833	4	0.09	4433	99.33
788	28	0.63	3974	89.04	834	1	0.02	4434	99.35
789	17	0.38	3991	89.42	835	6	0.13	4440	99.48
790	21	0.47	4012	89.89	836	2	0.04	4442	99.53
791	22	0.49	4034	90.39	837	1	0.02	4443	99.55
792	15	0.34	4049	90.72	838	2	0.04	4445	99.60
793	18	0.40	4067	91.13	839	3	0.07	4448	99.66
794	24	0.54	4091	91.66	841	1	0.02	4449	99.69
795	23	0.52	4114	92.18	842	4	0.09	4453	99.78
796	30	0.67	4144	92.85	843	2	0.04	4455	99.82
797	19	0.43	4163	93.28	844	1	0.02	4456	99.84
798	11	0.25	4174	93.52	846	1	0.02	4457	99.87
799	8	0.18	4182	93.70	848	1	0.02	4458	99.89
800	18	0.40	4200	94.11	850	5	0.11	4463	100.00
801	15	0.34	4215	94.44					
802	13	0.29	4228	94.73					
803	12	0.27	4240	95.00					
804	9	0.20	4249	95.21					
805	15	0.34	4264	95.54					
806	11	0.25	4275	95.79					
807	14	0.31	4289	96.10					
808	11	0.25	4300	96.35					
809	5	0.11	4305	96.46					
810	9	0.20	4314	96.66					
811	11	0.25	4325	96.91					
812	5	0.11	4330	97.02					
813	5	0.11	4335	97.13					
814	11	0.25	4346	97.38					
815	7	0.16	4353	97.54					
816	9	0.20	4362	97.74					
817	7	0.16	4369	97.89					
818	8	0.18	4377	98.07					
819	8	0.18	4385	98.25					
821	5	0.11	4390	98.36					
822	6	0.13	4396	98.50					
823	3	0.07	4399	98.57					
824	3	0.07	4402	98.63					
825	4	0.09	4406	98.72					
826	4	0.09	4410	98.81					
827	6	0.13	4416	98.95					
828	1	0.02	4417	98.97					
829	3	0.07	4420	99.04					
830	4	0.09	4424	99.13					

**Table 85. CSLA Grade 3 Scale Score Distribution**

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum. Freq</b>	<b>Cum. %</b>
<b>650</b>	11	1.31	11	1.31	<b>769</b>	4	0.48	818	97.73
<b>668</b>	18	2.15	29	3.46	<b>770</b>	2	0.24	820	97.97
<b>678</b>	21	2.51	50	5.97	<b>773</b>	4	0.48	824	98.45
<b>686</b>	20	2.39	70	8.36	<b>775</b>	3	0.36	827	98.81
<b>692</b>	36	4.30	106	12.66	<b>777</b>	2	0.24	829	99.04
<b>696</b>	26	3.11	132	15.77	<b>782</b>	1	0.12	830	99.16
<b>700</b>	28	3.35	160	19.12	<b>785</b>	1	0.12	831	99.28
<b>704</b>	29	3.46	189	22.58	<b>788</b>	1	0.12	832	99.40
<b>707</b>	44	5.26	233	27.84	<b>792</b>	1	0.12	833	99.52
<b>710</b>	34	4.06	267	31.90	<b>795</b>	1	0.12	834	99.64
<b>712</b>	29	3.46	296	35.36	<b>800</b>	2	0.24	836	99.88
<b>715</b>	20	2.39	316	37.75	<b>850</b>	1	0.12	837	100.00
<b>717</b>	24	2.87	340	40.62					
<b>719</b>	23	2.75	363	43.37					
<b>721</b>	33	3.94	396	47.31					
<b>723</b>	19	2.27	415	49.58					
<b>725</b>	26	3.11	441	52.69					
<b>726</b>	19	2.27	460	54.96					
<b>728</b>	19	2.27	479	57.23					
<b>730</b>	22	2.63	501	59.86					
<b>731</b>	27	3.23	528	63.08					
<b>733</b>	18	2.15	546	65.23					
<b>734</b>	20	2.39	566	67.62					
<b>736</b>	10	1.19	576	68.82					
<b>737</b>	21	2.51	597	71.33					
<b>738</b>	15	1.79	612	73.12					
<b>740</b>	17	2.03	629	75.15					
<b>741</b>	12	1.43	641	76.58					
<b>743</b>	16	1.91	657	78.49					
<b>744</b>	15	1.79	672	80.29					
<b>745</b>	12	1.43	684	81.72					
<b>747</b>	11	1.31	695	83.03					
<b>748</b>	13	1.55	708	84.59					
<b>750</b>	19	2.27	727	86.86					
<b>751</b>	12	1.43	739	88.29					
<b>752</b>	10	1.19	749	89.49					
<b>754</b>	14	1.67	763	91.16					
<b>755</b>	8	0.96	771	92.11					
<b>757</b>	10	1.19	781	93.31					
<b>758</b>	6	0.72	787	94.03					
<b>760</b>	10	1.19	797	95.22					
<b>762</b>	5	0.60	802	95.82					
<b>763</b>	9	1.08	811	96.89					

**Table 86. CSLA Grade 4 Scale Score Distribution**

SS	Freq	%	Cum. Freq	Cum. %
672	1	1.89	1	1.89
686	1	1.89	2	3.77
691	3	5.66	5	9.43
695	2	3.77	7	13.21
698	2	3.77	9	16.98
700	2	3.77	11	20.75
704	2	3.77	13	24.53
707	2	3.77	15	28.30
719	1	1.89	16	30.19
729	1	1.89	17	32.08
730	2	3.77	19	35.85
732	1	1.89	20	37.74
736	2	3.77	22	41.51
737	2	3.77	24	45.28
740	1	1.89	25	47.17
741	3	5.66	28	52.83
743	2	3.77	30	56.60
744	2	3.77	32	60.38
745	3	5.66	35	66.04
747	1	1.89	36	67.92
748	2	3.77	38	71.70
749	1	1.89	39	73.58
752	1	1.89	40	75.47
755	1	1.89	41	77.36
756	2	3.77	43	81.13
757	2	3.77	45	84.91
759	1	1.89	46	86.79
760	3	5.66	49	92.45
762	1	1.89	50	94.34
765	1	1.89	51	96.23
772	1	1.89	52	98.11
785	1	1.89	53	100.00

**Table 87. Science Grade 8 Cumulative Frequency Distribution of Scale Scores**

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
<b>300</b>	1,404	3.80	1,404	3.80	<b>345</b>	24	0.06	2,174	5.88	<b>390</b>	28	0.08	3,438	9.30
<b>301</b>	9	0.02	1,413	3.82	<b>346</b>	25	0.07	2,199	5.95	<b>391</b>	29	0.08	3,467	9.38
<b>302</b>	13	0.04	1,426	3.86	<b>347</b>	22	0.06	2,221	6.01	<b>392</b>	41	0.11	3,508	9.49
<b>303</b>	14	0.04	1,440	3.90	<b>348</b>	20	0.05	2,241	6.06	<b>393</b>	43	0.12	3,551	9.61
<b>304</b>	11	0.03	1,451	3.93	<b>349</b>	21	0.06	2,262	6.12	<b>394</b>	23	0.06	3,574	9.67
<b>305</b>	29	0.08	1,480	4.00	<b>350</b>	23	0.06	2,285	6.18	<b>395</b>	50	0.14	3,624	9.80
<b>306</b>	13	0.04	1,493	4.04	<b>351</b>	20	0.05	2,305	6.24	<b>396</b>	29	0.08	3,653	9.88
<b>307</b>	19	0.05	1,512	4.09	<b>352</b>	23	0.06	2,328	6.30	<b>397</b>	39	0.11	3,692	9.99
<b>308</b>	13	0.04	1,525	4.13	<b>353</b>	33	0.09	2,361	6.39	<b>398</b>	31	0.08	3,723	10.07
<b>309</b>	21	0.06	1,546	4.18	<b>354</b>	17	0.05	2,378	6.43	<b>399</b>	39	0.11	3,762	10.18
<b>310</b>	17	0.05	1,563	4.23	<b>355</b>	20	0.05	2,398	6.49	<b>400</b>	34	0.09	3,796	10.27
<b>311</b>	16	0.04	1,579	4.27	<b>356</b>	21	0.06	2,419	6.54	<b>401</b>	26	0.07	3,822	10.34
<b>312</b>	13	0.04	1,592	4.31	<b>357</b>	21	0.06	2,440	6.60	<b>402</b>	39	0.11	3,861	10.45
<b>313</b>	19	0.05	1,611	4.36	<b>358</b>	15	0.04	2,455	6.64	<b>403</b>	43	0.12	3,904	10.56
<b>314</b>	13	0.04	1,624	4.39	<b>359</b>	25	0.07	2,480	6.71	<b>404</b>	36	0.10	3,940	10.66
<b>315</b>	15	0.04	1,639	4.43	<b>360</b>	30	0.08	2,510	6.79	<b>405</b>	33	0.09	3,973	10.75
<b>316</b>	10	0.03	1,649	4.46	<b>361</b>	30	0.08	2,540	6.87	<b>406</b>	39	0.11	4,012	10.85
<b>317</b>	13	0.04	1,662	4.50	<b>362</b>	29	0.08	2,569	6.95	<b>407</b>	46	0.12	4,058	10.98
<b>318</b>	22	0.06	1,684	4.56	<b>363</b>	35	0.09	2,604	7.05	<b>408</b>	46	0.12	4,104	11.10
<b>319</b>	15	0.04	1,699	4.60	<b>364</b>	35	0.09	2,639	7.14	<b>409</b>	52	0.14	4,156	11.24
<b>320</b>	21	0.06	1,720	4.65	<b>365</b>	38	0.10	2,677	7.24	<b>410</b>	40	0.11	4,196	11.35
<b>321</b>	8	0.02	1,728	4.68	<b>366</b>	22	0.06	2,699	7.30	<b>411</b>	56	0.15	4,252	11.50
<b>322</b>	13	0.04	1,741	4.71	<b>367</b>	29	0.08	2,728	7.38	<b>412</b>	47	0.13	4,299	11.63
<b>323</b>	15	0.04	1,756	4.75	<b>368</b>	34	0.09	2,762	7.47	<b>413</b>	35	0.09	4,334	11.73
<b>324</b>	15	0.04	1,771	4.79	<b>369</b>	24	0.06	2,786	7.54	<b>414</b>	46	0.12	4,380	11.85
<b>325</b>	14	0.04	1,785	4.83	<b>370</b>	28	0.08	2,814	7.61	<b>415</b>	49	0.13	4,429	11.98
<b>326</b>	14	0.04	1,799	4.87	<b>371</b>	31	0.08	2,845	7.70	<b>416</b>	41	0.11	4,470	12.09
<b>327</b>	18	0.05	1,817	4.92	<b>372</b>	27	0.07	2,872	7.77	<b>417</b>	54	0.15	4,524	12.24
<b>328</b>	22	0.06	1,839	4.98	<b>373</b>	22	0.06	2,894	7.83	<b>418</b>	45	0.12	4,569	12.36
<b>329</b>	26	0.07	1,865	5.05	<b>374</b>	29	0.08	2,923	7.91	<b>419</b>	53	0.14	4,622	12.51
<b>330</b>	16	0.04	1,881	5.09	<b>375</b>	22	0.06	2,945	7.97	<b>420</b>	56	0.15	4,678	12.66
<b>331</b>	17	0.05	1,898	5.14	<b>376</b>	30	0.08	2,975	8.05	<b>421</b>	39	0.11	4,717	12.76
<b>332</b>	19	0.05	1,917	5.19	<b>377</b>	28	0.08	3,003	8.12	<b>422</b>	40	0.11	4,757	12.87
<b>333</b>	18	0.05	1,935	5.24	<b>378</b>	32	0.09	3,035	8.21	<b>423</b>	53	0.14	4,810	13.01
<b>334</b>	19	0.05	1,954	5.29	<b>379</b>	27	0.07	3,062	8.28	<b>424</b>	53	0.14	4,863	13.16
<b>335</b>	21	0.06	1,975	5.34	<b>380</b>	26	0.07	3,088	8.35	<b>425</b>	41	0.11	4,904	13.27
<b>336</b>	17	0.05	1,992	5.39	<b>381</b>	35	0.09	3,123	8.45	<b>426</b>	56	0.15	4,960	13.42
<b>337</b>	22	0.06	2,014	5.45	<b>382</b>	29	0.08	3,152	8.53	<b>427</b>	49	0.13	5,009	13.55
<b>338</b>	10	0.03	2,024	5.48	<b>383</b>	28	0.08	3,180	8.60	<b>428</b>	60	0.16	5,069	13.71
<b>339</b>	22	0.06	2,046	5.54	<b>384</b>	26	0.07	3,206	8.67	<b>429</b>	61	0.17	5,130	13.88
<b>340</b>	20	0.05	2,066	5.59	<b>385</b>	52	0.14	3,258	8.81	<b>430</b>	45	0.12	5,175	14.00
<b>341</b>	19	0.05	2,085	5.64	<b>386</b>	43	0.12	3,301	8.93	<b>431</b>	49	0.13	5,224	14.13
<b>342</b>	16	0.04	2,101	5.68	<b>387</b>	44	0.12	3,345	9.05	<b>432</b>	40	0.11	5,264	14.24
<b>343</b>	25	0.07	2,126	5.75	<b>388</b>	34	0.09	3,379	9.14	<b>433</b>	60	0.16	5,324	14.40
<b>344</b>	24	0.06	2,150	5.82	<b>389</b>	31	0.08	3,410	9.23	<b>434</b>	57	0.15	5,381	14.56

**Table 88. Science Grade 8 Cumulative Frequency Distribution of Scale Scores (continued)**

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
<b>435</b>	57	0.15	5,438	14.71	<b>480</b>	81	0.22	8,352	22.60	<b>525</b>	86	0.23	12,280	33.22
<b>436</b>	78	0.21	5,516	14.92	<b>481</b>	67	0.18	8,419	22.78	<b>526</b>	102	0.28	12,382	33.50
<b>437</b>	56	0.15	5,572	15.08	<b>482</b>	74	0.20	8,493	22.98	<b>527</b>	114	0.31	12,496	33.81
<b>438</b>	54	0.15	5,626	15.22	<b>483</b>	78	0.21	8,571	23.19	<b>528</b>	107	0.29	12,603	34.10
<b>439</b>	62	0.17	5,688	15.39	<b>484</b>	66	0.18	8,637	23.37	<b>529</b>	108	0.29	12,711	34.39
<b>440</b>	67	0.18	5,755	15.57	<b>485</b>	80	0.22	8,717	23.58	<b>530</b>	109	0.29	12,820	34.69
<b>441</b>	61	0.17	5,816	15.74	<b>486</b>	71	0.19	8,788	23.78	<b>531</b>	124	0.34	12,944	35.02
<b>442</b>	49	0.13	5,865	15.87	<b>487</b>	63	0.17	8,851	23.95	<b>532</b>	121	0.33	13,065	35.35
<b>443</b>	36	0.10	5,901	15.97	<b>488</b>	91	0.25	8,942	24.19	<b>533</b>	113	0.31	13,178	35.65
<b>444</b>	43	0.12	5,944	16.08	<b>489</b>	68	0.18	9,010	24.38	<b>534</b>	92	0.25	13,270	35.90
<b>445</b>	54	0.15	5,998	16.23	<b>490</b>	76	0.21	9,086	24.58	<b>535</b>	94	0.25	13,364	36.16
<b>446</b>	61	0.17	6,059	16.39	<b>491</b>	86	0.23	9,172	24.82	<b>536</b>	95	0.26	13,459	36.41
<b>447</b>	62	0.17	6,121	16.56	<b>492</b>	90	0.24	9,262	25.06	<b>537</b>	85	0.23	13,544	36.64
<b>448</b>	64	0.17	6,185	16.73	<b>493</b>	79	0.21	9,341	25.27	<b>538</b>	97	0.26	13,641	36.91
<b>449</b>	56	0.15	6,241	16.89	<b>494</b>	82	0.22	9,423	25.49	<b>539</b>	79	0.21	13,720	37.12
<b>450</b>	67	0.18	6,308	17.07	<b>495</b>	70	0.19	9,493	25.68	<b>540</b>	104	0.28	13,824	37.40
<b>451</b>	55	0.15	6,363	17.22	<b>496</b>	70	0.19	9,563	25.87	<b>541</b>	110	0.30	13,934	37.70
<b>452</b>	72	0.19	6,435	17.41	<b>497</b>	96	0.26	9,659	26.13	<b>542</b>	100	0.27	14,034	37.97
<b>453</b>	60	0.16	6,495	17.57	<b>498</b>	83	0.22	9,742	26.36	<b>543</b>	109	0.29	14,143	38.26
<b>454</b>	69	0.19	6,564	17.76	<b>499</b>	94	0.25	9,836	26.61	<b>544</b>	108	0.29	14,251	38.56
<b>455</b>	65	0.18	6,629	17.94	<b>500</b>	85	0.23	9,921	26.84	<b>545</b>	120	0.32	14,371	38.88
<b>456</b>	54	0.15	6,683	18.08	<b>501</b>	88	0.24	10,009	27.08	<b>546</b>	103	0.28	14,474	39.16
<b>457</b>	75	0.20	6,758	18.28	<b>502</b>	100	0.27	10,109	27.35	<b>547</b>	102	0.28	14,576	39.44
<b>458</b>	52	0.14	6,810	18.42	<b>503</b>	89	0.24	10,198	27.59	<b>548</b>	117	0.32	14,693	39.75
<b>459</b>	65	0.18	6,875	18.60	<b>504</b>	88	0.24	10,286	27.83	<b>549</b>	117	0.32	14,810	40.07
<b>460</b>	75	0.20	6,950	18.80	<b>505</b>	77	0.21	10,363	28.04	<b>550</b>	111	0.30	14,921	40.37
<b>461</b>	66	0.18	7,016	18.98	<b>506</b>	102	0.28	10,465	28.31	<b>551</b>	101	0.27	15,022	40.64
<b>462</b>	66	0.18	7,082	19.16	<b>507</b>	100	0.27	10,565	28.58	<b>552</b>	110	0.30	15,132	40.94
<b>463</b>	63	0.17	7,145	19.33	<b>508</b>	115	0.31	10,680	28.90	<b>553</b>	136	0.37	15,268	41.31
<b>464</b>	74	0.20	7,219	19.53	<b>509</b>	107	0.29	10,787	29.18	<b>554</b>	109	0.29	15,377	41.60
<b>465</b>	77	0.21	7,296	19.74	<b>510</b>	91	0.25	10,878	29.43	<b>555</b>	107	0.29	15,484	41.89
<b>466</b>	80	0.22	7,376	19.96	<b>511</b>	94	0.25	10,972	29.69	<b>556</b>	108	0.29	15,592	42.19
<b>467</b>	71	0.19	7,447	20.15	<b>512</b>	109	0.29	11,081	29.98	<b>557</b>	112	0.30	15,704	42.49
<b>468</b>	61	0.17	7,508	20.31	<b>513</b>	87	0.24	11,168	30.22	<b>558</b>	123	0.33	15,827	42.82
<b>469</b>	56	0.15	7,564	20.46	<b>514</b>	81	0.22	11,249	30.43	<b>559</b>	124	0.34	15,951	43.16
<b>470</b>	58	0.16	7,622	20.62	<b>515</b>	103	0.28	11,352	30.71	<b>560</b>	110	0.30	16,061	43.45
<b>471</b>	67	0.18	7,689	20.80	<b>516</b>	86	0.23	11,438	30.95	<b>561</b>	123	0.33	16,184	43.79
<b>472</b>	81	0.22	7,770	21.02	<b>517</b>	91	0.25	11,529	31.19	<b>562</b>	124	0.34	16,308	44.12
<b>473</b>	72	0.19	7,842	21.22	<b>518</b>	87	0.24	11,616	31.43	<b>563</b>	109	0.29	16,417	44.42
<b>474</b>	72	0.19	7,914	21.41	<b>519</b>	112	0.30	11,728	31.73	<b>564</b>	121	0.33	16,538	44.74
<b>475</b>	68	0.18	7,982	21.60	<b>520</b>	106	0.29	11,834	32.02	<b>565</b>	110	0.30	16,648	45.04
<b>476</b>	73	0.20	8,055	21.79	<b>521</b>	83	0.22	11,917	32.24	<b>566</b>	125	0.34	16,773	45.38
<b>477</b>	66	0.18	8,121	21.97	<b>522</b>	94	0.25	12,011	32.50	<b>567</b>	121	0.33	16,894	45.71
<b>478</b>	80	0.22	8,201	22.19	<b>523</b>	89	0.24	12,100	32.74	<b>568</b>	109	0.29	17,003	46.00
<b>479</b>	70	0.19	8,271	22.38	<b>524</b>	94	0.25	12,194	32.99	<b>569</b>	122	0.33	17,125	46.33

**Table 89. Science Grade 8 Cumulative Frequency Distribution of Scale Scores (continued)**

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
<b>570</b>	108	0.29	17,233	46.62	<b>615</b>	132	0.36	22,797	61.68	<b>660</b>	114	0.31	28,311	76.60
<b>571</b>	135	0.37	17,368	46.99	<b>616</b>	114	0.31	22,911	61.99	<b>661</b>	110	0.30	28,421	76.89
<b>572</b>	105	0.28	17,473	47.27	<b>617</b>	128	0.35	23,039	62.33	<b>662</b>	114	0.31	28,535	77.20
<b>573</b>	118	0.32	17,591	47.59	<b>618</b>	126	0.34	23,165	62.67	<b>663</b>	124	0.34	28,659	77.54
<b>574</b>	111	0.30	17,702	47.89	<b>619</b>	153	0.41	23,318	63.09	<b>664</b>	120	0.32	28,779	77.86
<b>575</b>	122	0.33	17,824	48.22	<b>620</b>	131	0.35	23,449	63.44	<b>665</b>	118	0.32	28,897	78.18
<b>576</b>	112	0.30	17,936	48.53	<b>621</b>	136	0.37	23,585	63.81	<b>666</b>	109	0.29	29,006	78.48
<b>577</b>	135	0.37	18,071	48.89	<b>622</b>	142	0.38	23,727	64.19	<b>667</b>	101	0.27	29,107	78.75
<b>578</b>	136	0.37	18,207	49.26	<b>623</b>	102	0.28	23,829	64.47	<b>668</b>	105	0.28	29,212	79.03
<b>579</b>	119	0.32	18,326	49.58	<b>624</b>	116	0.31	23,945	64.78	<b>669</b>	91	0.25	29,303	79.28
<b>580</b>	136	0.37	18,462	49.95	<b>625</b>	118	0.32	24,063	65.10	<b>670</b>	97	0.26	29,400	79.54
<b>581</b>	145	0.39	18,607	50.34	<b>626</b>	130	0.35	24,193	65.46	<b>671</b>	104	0.28	29,504	79.82
<b>582</b>	120	0.32	18,727	50.67	<b>627</b>	114	0.31	24,307	65.76	<b>672</b>	120	0.32	29,624	80.15
<b>583</b>	126	0.34	18,853	51.01	<b>628</b>	134	0.36	24,441	66.13	<b>673</b>	94	0.25	29,718	80.40
<b>584</b>	137	0.37	18,990	51.38	<b>629</b>	127	0.34	24,568	66.47	<b>674</b>	108	0.29	29,826	80.70
<b>585</b>	123	0.33	19,113	51.71	<b>630</b>	113	0.31	24,681	66.78	<b>675</b>	106	0.29	29,932	80.98
<b>586</b>	138	0.37	19,251	52.08	<b>631</b>	109	0.29	24,790	67.07	<b>676</b>	111	0.30	30,043	81.28
<b>587</b>	119	0.32	19,370	52.41	<b>632</b>	121	0.33	24,911	67.40	<b>677</b>	102	0.28	30,145	81.56
<b>588</b>	133	0.36	19,503	52.77	<b>633</b>	118	0.32	25,029	67.72	<b>678</b>	92	0.25	30,237	81.81
<b>589</b>	126	0.34	19,629	53.11	<b>634</b>	121	0.33	25,150	68.04	<b>679</b>	96	0.26	30,333	82.07
<b>590</b>	143	0.39	19,772	53.49	<b>635</b>	121	0.33	25,271	68.37	<b>680</b>	111	0.30	30,444	82.37
<b>591</b>	114	0.31	19,886	53.80	<b>636</b>	142	0.38	25,413	68.76	<b>681</b>	91	0.25	30,535	82.61
<b>592</b>	113	0.31	19,999	54.11	<b>637</b>	132	0.36	25,545	69.11	<b>682</b>	78	0.21	30,613	82.83
<b>593</b>	111	0.30	20,110	54.41	<b>638</b>	133	0.36	25,678	69.47	<b>683</b>	99	0.27	30,712	83.09
<b>594</b>	113	0.31	20,223	54.71	<b>639</b>	130	0.35	25,808	69.82	<b>684</b>	102	0.28	30,814	83.37
<b>595</b>	132	0.36	20,355	55.07	<b>640</b>	107	0.29	25,915	70.11	<b>685</b>	86	0.23	30,900	83.60
<b>596</b>	126	0.34	20,481	55.41	<b>641</b>	137	0.37	26,052	70.49	<b>686</b>	96	0.26	30,996	83.86
<b>597</b>	104	0.28	20,585	55.69	<b>642</b>	123	0.33	26,175	70.82	<b>687</b>	87	0.24	31,083	84.10
<b>598</b>	140	0.38	20,725	56.07	<b>643</b>	131	0.35	26,306	71.17	<b>688</b>	96	0.26	31,179	84.36
<b>599</b>	129	0.35	20,854	56.42	<b>644</b>	113	0.31	26,419	71.48	<b>689</b>	89	0.24	31,268	84.60
<b>600</b>	136	0.37	20,990	56.79	<b>645</b>	108	0.29	26,527	71.77	<b>690</b>	93	0.25	31,361	84.85
<b>601</b>	109	0.29	21,099	57.08	<b>646</b>	98	0.27	26,625	72.04	<b>691</b>	101	0.27	31,462	85.12
<b>602</b>	116	0.31	21,215	57.40	<b>647</b>	114	0.31	26,739	72.34	<b>692</b>	89	0.24	31,551	85.36
<b>603</b>	122	0.33	21,337	57.73	<b>648</b>	117	0.32	26,856	72.66	<b>693</b>	92	0.25	31,643	85.61
<b>604</b>	136	0.37	21,473	58.10	<b>649</b>	107	0.29	26,963	72.95	<b>694</b>	107	0.29	31,750	85.90
<b>605</b>	131	0.35	21,604	58.45	<b>650</b>	118	0.32	27,081	73.27	<b>695</b>	82	0.22	31,832	86.12
<b>606</b>	100	0.27	21,704	58.72	<b>651</b>	129	0.35	27,210	73.62	<b>696</b>	78	0.21	31,910	86.33
<b>607</b>	120	0.32	21,824	59.05	<b>652</b>	108	0.29	27,318	73.91	<b>697</b>	87	0.24	31,997	86.57
<b>608</b>	129	0.35	21,953	59.40	<b>653</b>	140	0.38	27,458	74.29	<b>698</b>	83	0.22	32,080	86.79
<b>609</b>	134	0.36	22,087	59.76	<b>654</b>	112	0.30	27,570	74.59	<b>699</b>	74	0.20	32,154	86.99
<b>610</b>	125	0.34	22,212	60.10	<b>655</b>	130	0.35	27,700	74.94	<b>700</b>	88	0.24	32,242	87.23
<b>611</b>	134	0.36	22,346	60.46	<b>656</b>	115	0.31	27,815	75.25	<b>701</b>	82	0.22	32,324	87.45
<b>612</b>	106	0.29	22,452	60.75	<b>657</b>	136	0.37	27,951	75.62	<b>702</b>	86	0.23	32,410	87.69
<b>613</b>	118	0.32	22,570	61.06	<b>658</b>	143	0.39	28,094	76.01	<b>703</b>	89	0.24	32,499	87.93
<b>614</b>	95	0.26	22,665	61.32	<b>659</b>	103	0.28	28,197	76.29	<b>704</b>	73	0.20	32,572	88.13

**Table 90. Science Grade 8 Cumulative Frequency Distribution of Scale Scores (continued)**

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
<b>705</b>	76	0.21	32,648	88.33	<b>750</b>	49	0.13	35,214	95.27	<b>795</b>	17	0.05	36,434	98.57
<b>706</b>	77	0.21	32,725	88.54	<b>751</b>	43	0.12	35,257	95.39	<b>796</b>	25	0.07	36,459	98.64
<b>707</b>	67	0.18	32,792	88.72	<b>752</b>	38	0.10	35,295	95.49	<b>797</b>	9	0.02	36,468	98.67
<b>708</b>	86	0.23	32,878	88.95	<b>753</b>	46	0.12	35,341	95.62	<b>798</b>	13	0.04	36,481	98.70
<b>709</b>	65	0.18	32,943	89.13	<b>754</b>	50	0.14	35,391	95.75	<b>799</b>	12	0.03	36,493	98.73
<b>710</b>	86	0.23	33,029	89.36	<b>755</b>	35	0.09	35,426	95.85	<b>800</b>	18	0.05	36,511	98.78
<b>711</b>	79	0.21	33,108	89.58	<b>756</b>	41	0.11	35,467	95.96	<b>801</b>	9	0.02	36,520	98.81
<b>712</b>	67	0.18	33,175	89.76	<b>757</b>	35	0.09	35,502	96.05	<b>802</b>	16	0.04	36,536	98.85
<b>713</b>	74	0.20	33,249	89.96	<b>758</b>	33	0.09	35,535	96.14	<b>803</b>	15	0.04	36,551	98.89
<b>714</b>	54	0.15	33,303	90.10	<b>759</b>	25	0.07	35,560	96.21	<b>804</b>	9	0.02	36,560	98.92
<b>715</b>	77	0.21	33,380	90.31	<b>760</b>	45	0.12	35,605	96.33	<b>805</b>	12	0.03	36,572	98.95
<b>716</b>	49	0.13	33,429	90.44	<b>761</b>	34	0.09	35,639	96.42	<b>806</b>	13	0.04	36,585	98.98
<b>717</b>	64	0.17	33,493	90.62	<b>762</b>	35	0.09	35,674	96.52	<b>807</b>	13	0.04	36,598	99.02
<b>718</b>	74	0.20	33,567	90.82	<b>763</b>	30	0.08	35,704	96.60	<b>808</b>	5	0.01	36,603	99.03
<b>719</b>	54	0.15	33,621	90.96	<b>764</b>	22	0.06	35,726	96.66	<b>809</b>	13	0.04	36,616	99.07
<b>720</b>	44	0.12	33,665	91.08	<b>765</b>	40	0.11	35,766	96.77	<b>810</b>	17	0.05	36,633	99.11
<b>721</b>	70	0.19	33,735	91.27	<b>766</b>	27	0.07	35,793	96.84	<b>811</b>	9	0.02	36,642	99.14
<b>722</b>	68	0.18	33,803	91.46	<b>767</b>	29	0.08	35,822	96.92	<b>812</b>	14	0.04	36,656	99.17
<b>723</b>	64	0.17	33,867	91.63	<b>768</b>	27	0.07	35,849	96.99	<b>813</b>	11	0.03	36,667	99.20
<b>724</b>	64	0.17	33,931	91.80	<b>769</b>	21	0.06	35,870	97.05	<b>814</b>	12	0.03	36,679	99.24
<b>725</b>	59	0.16	33,990	91.96	<b>770</b>	23	0.06	35,893	97.11	<b>815</b>	15	0.04	36,694	99.28
<b>726</b>	54	0.15	34,044	92.11	<b>771</b>	21	0.06	35,914	97.17	<b>816</b>	12	0.03	36,706	99.31
<b>727</b>	57	0.15	34,101	92.26	<b>772</b>	23	0.06	35,937	97.23	<b>817</b>	5	0.01	36,711	99.32
<b>728</b>	54	0.15	34,155	92.41	<b>773</b>	34	0.09	35,971	97.32	<b>818</b>	8	0.02	36,719	99.35
<b>729</b>	56	0.15	34,211	92.56	<b>774</b>	21	0.06	35,992	97.38	<b>819</b>	6	0.02	36,725	99.36
<b>730</b>	53	0.14	34,264	92.70	<b>775</b>	21	0.06	36,013	97.44	<b>820</b>	11	0.03	36,736	99.39
<b>731</b>	49	0.13	34,313	92.84	<b>776</b>	28	0.08	36,041	97.51	<b>821</b>	4	0.01	36,740	99.40
<b>732</b>	45	0.12	34,358	92.96	<b>777</b>	25	0.07	36,066	97.58	<b>822</b>	11	0.03	36,751	99.43
<b>733</b>	55	0.15	34,413	93.11	<b>778</b>	30	0.08	36,096	97.66	<b>823</b>	6	0.02	36,757	99.45
<b>734</b>	59	0.16	34,472	93.27	<b>779</b>	22	0.06	36,118	97.72	<b>824</b>	3	0.01	36,760	99.46
<b>735</b>	48	0.13	34,520	93.40	<b>780</b>	25	0.07	36,143	97.79	<b>825</b>	8	0.02	36,768	99.48
<b>736</b>	58	0.16	34,578	93.55	<b>781</b>	16	0.04	36,159	97.83	<b>826</b>	7	0.02	36,775	99.50
<b>737</b>	49	0.13	34,627	93.69	<b>782</b>	20	0.05	36,179	97.88	<b>827</b>	5	0.01	36,780	99.51
<b>738</b>	42	0.11	34,669	93.80	<b>783</b>	20	0.05	36,199	97.94	<b>828</b>	7	0.02	36,787	99.53
<b>739</b>	51	0.14	34,720	93.94	<b>784</b>	20	0.05	36,219	97.99	<b>829</b>	6	0.02	36,793	99.55
<b>740</b>	41	0.11	34,761	94.05	<b>785</b>	22	0.06	36,241	98.05	<b>830</b>	6	0.02	36,799	99.56
<b>741</b>	49	0.13	34,810	94.18	<b>786</b>	26	0.07	36,267	98.12	<b>831</b>	5	0.01	36,804	99.58
<b>742</b>	44	0.12	34,854	94.30	<b>787</b>	15	0.04	36,282	98.16	<b>832</b>	2	0.01	36,806	99.58
<b>743</b>	39	0.11	34,893	94.40	<b>788</b>	21	0.06	36,303	98.22	<b>833</b>	4	0.01	36,810	99.59
<b>744</b>	51	0.14	34,944	94.54	<b>789</b>	24	0.06	36,327	98.28	<b>834</b>	7	0.02	36,817	99.61
<b>745</b>	41	0.11	34,985	94.65	<b>790</b>	18	0.05	36,345	98.33	<b>835</b>	3	0.01	36,820	99.62
<b>746</b>	52	0.14	35,037	94.79	<b>791</b>	15	0.04	36,360	98.37	<b>836</b>	3	0.01	36,823	99.63
<b>747</b>	37	0.10	35,074	94.89	<b>792</b>	27	0.07	36,387	98.45	<b>837</b>	4	0.01	36,827	99.64
<b>748</b>	46	0.12	35,120	95.02	<b>793</b>	16	0.04	36,403	98.49	<b>838</b>	3	0.01	36,830	99.65
<b>749</b>	45	0.12	35,165	95.14	<b>794</b>	14	0.04	36,417	98.53	<b>839</b>	2	0.01	36,832	99.65

**Table 91. Science Grade 8 Cumulative Frequency Distribution of Scale Scores (continued)**

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
<b>840</b>	6	0.02	36,838	99.67	<b>889</b>	1	0.00	36,950	99.97
<b>841</b>	9	0.02	36,847	99.69	<b>890</b>	1	0.00	36,951	99.97
<b>842</b>	7	0.02	36,854	99.71	<b>896</b>	1	0.00	36,952	99.98
<b>843</b>	2	0.01	36,856	99.72	<b>898</b>	1	0.00	36,953	99.98
<b>844</b>	3	0.01	36,859	99.72	<b>900</b>	8	0.02	36,961	100.00
<b>845</b>	3	0.01	36,862	99.73					
<b>846</b>	4	0.01	36,866	99.74					
<b>847</b>	2	0.01	36,868	99.75					
<b>848</b>	5	0.01	36,873	99.76					
<b>849</b>	4	0.01	36,877	99.77					
<b>850</b>	5	0.01	36,882	99.79					
<b>851</b>	1	0.00	36,883	99.79					
<b>852</b>	2	0.01	36,885	99.79					
<b>853</b>	3	0.01	36,888	99.80					
<b>854</b>	2	0.01	36,890	99.81					
<b>855</b>	1	0.00	36,891	99.81					
<b>856</b>	2	0.01	36,893	99.82					
<b>857</b>	5	0.01	36,898	99.83					
<b>858</b>	1	0.00	36,899	99.83					
<b>859</b>	4	0.01	36,903	99.84					
<b>860</b>	2	0.01	36,905	99.85					
<b>861</b>	3	0.01	36,908	99.86					
<b>862</b>	1	0.00	36,909	99.86					
<b>863</b>	3	0.01	36,912	99.87					
<b>864</b>	1	0.00	36,913	99.87					
<b>865</b>	3	0.01	36,916	99.88					
<b>866</b>	1	0.00	36,917	99.88					
<b>867</b>	1	0.00	36,918	99.88					
<b>868</b>	2	0.01	36,920	99.89					
<b>869</b>	2	0.01	36,922	99.89					
<b>870</b>	2	0.01	36,924	99.90					
<b>871</b>	2	0.01	36,926	99.91					
<b>872</b>	3	0.01	36,929	99.91					
<b>874</b>	1	0.00	36,930	99.92					
<b>875</b>	2	0.01	36,932	99.92					
<b>876</b>	1	0.00	36,933	99.92					
<b>877</b>	3	0.01	36,936	99.93					
<b>879</b>	2	0.01	36,938	99.94					
<b>880</b>	1	0.00	36,939	99.94					
<b>881</b>	2	0.01	36,941	99.95					
<b>883</b>	1	0.00	36,942	99.95					
<b>884</b>	2	0.01	36,944	99.95					
<b>885</b>	2	0.01	36,946	99.96					
<b>886</b>	1	0.00	36,947	99.96					
<b>888</b>	2	0.01	36,949	99.97					

**Table 92. Scale Score Performance Summary**

Content Area	Grade	N	Mean	SD	Median	2019 Scale Scores	
						Mean	SD
MATH	3	5,941	741	37.7	742	740	36.4
	4	46,782	729	33.5	729	735	32.5
	5	5,935	739	34.1	738	738	33.9
	6	44,817	727	32.4	726	732	31.0
	7	5,510	733	26.9	731	735	29.4
	8	39,202	730	38.8	726	736	41.2
ELA	3	45,191	736	42.6	737	740	40.7
	4	5,725	743	34.7	747	745	35.9
	5	46,917	746	32.4	747	747	34.1
	6	5,439	738	30.3	739	743	32.8
	7	42,934	742	37.0	742	745	38.5
	8	4,463	743	38.1	744	745	40.3
ELA – Reading Claim	3	45,191	145	17.6	144	146	16.7
	4	5,725	149	14.8	150	148	14.7
	5	46,917	149	13.4	149	149	14.0
	6	5,439	147	12.9	147	147	13.5
	7	42,934	147	15.4	147	148	15.7
	8	4,463	149	16.0	149	148	16.3
CSLA	3	837	723	25.5	725	733	25.7
	4	53	733	26.3	741	729	23.5
CSLA – Reading Claim	3	837	140	10.0	140	143	10.0
	4	53	143	10.3	147	141	8.9
Science	8	36,961	568	120.4	581	580	126.6
Physical SC Subclaim	8	36,961	568	129.8	579	580	135.5
Life SC Subclaim	8	36,961	562	130.8	575	576	137.5
Earth Systems SC Subclaim	8	36,961	568	133.0	584	578	137.8
SINS Subclaim	8	36,961	570	133.5	584	580	138.6
Science SRs	8	36,961	571	127.1	582	580	132.1
Science CRs	8	36,961	564	126.4	579	578	133.5

Note: SINS= Scientific Investigations and the Nature of Science; SRs=Selected-Response Items;

CRs=Constructed-Response Items

**Table 93. Percentage of Performance Levels**

Content Area	Grade	2021 Performance Level %					2019 Performance Level %				
		1	2	3	4	5	1	2	3	4	5
MATH	3	14.98%	17.87%	24.54%	33.47%	9.14%	14.30%	18.94%	25.73%	32.97%	8.05%
	4	20.09%	24.94%	26.45%	26.24%	2.27%	14.70%	24.45%	27.25%	30.70%	2.90%
	5	13.72%	23.18%	24.45%	31.46%	7.19%	13.05%	24.25%	27.02%	28.74%	6.93%
	6	21.03%	27.11%	27.73%	20.94%	3.20%	14.42%	27.63%	28.40%	25.58%	3.96%
	7	10.00%	30.93%	31.80%	24.74%	2.54%	10.82%	26.02%	31.57%	27.58%	4.01%
	8	22.49%	25.49%	22.49%	24.80%	4.73%	20.18%	19.67%	23.27%	30.67%	6.21%
ELA	3	21.54%	17.95%	21.37%	34.90%	4.23%	17.26%	18.30%	23.16%	36.77%	4.51%
	4	12.37%	15.81%	25.89%	39.48%	6.46%	11.84%	14.67%	25.46%	38.39%	9.63%
	5	7.66%	19.21%	25.94%	42.56%	4.63%	9.01%	17.03%	25.56%	42.57%	5.83%
	6	10.04%	22.65%	30.78%	32.40%	4.14%	9.81%	18.26%	28.34%	36.33%	7.25%
	7	13.33%	19.08%	24.96%	29.64%	12.99%	13.35%	16.87%	23.25%	30.89%	15.64%
	8	14.21%	17.10%	23.68%	36.14%	8.87%	14.96%	16.19%	21.92%	35.56%	11.38%
CSLA	3	15.77%	33.81%	35.01%	14.46%	0.96%	8.48%	25.09%	38.89%	23.98%	3.57%
	4	16.98%	13.21%	43.40%	22.64%	3.77%	11.27%	29.69%	39.93%	16.01%	3.10%
Science	8	41.9%	31.7%	24.4%	2.0%		38.7%	29.9%	28.2%	3.3%	

Note: Percentages may not sum to 100 due to rounding.

**Table 94. Mathematics Points Earned Summary by Subclaim**

Subclaim	Grade	Mean	SD	Min	Max	Max Points Possible	Average Percent Correct
Subclaim A	3	11.9	5.2	0	22	22	54.27%
	4	10.6	6.0	0	24	24	44.43%
	5	11.6	6.0	0	23	23	50.49%
	6	6.2	4.4	0	20	20	30.94%
	7	7.1	4.6	0	23	23	30.63%
	8	9.5	4.9	0	24	24	39.84%
Subclaim B	3	5.1	2.5	0	9	9	57.05%
	4	2.6	1.9	0	7	7	37.45%
	5	3.7	2.3	0	8	8	46.34%
	6	3.9	2.2	0	10	10	38.58%
	7	3.0	1.9	0	8	8	37.81%
	8	2.6	2.0	0	7	7	37.59%
Subclaim C	3	3.5	2.5	0	11	11	31.94%
	4	2.8	2.9	0	11	11	25.53%
	5	2.5	2.5	0	11	11	22.83%
	6	3.3	3.2	0	11	11	30.35%
	7	2.6	2.8	0	11	11	23.26%
	8	1.8	2.2	0	11	11	16.33%
Subclaim D	3	3.1	2.2	0	9	9	34.88%
	4	2.8	2.3	0	9	9	31.25%
	5	2.5	2.5	0	9	9	27.38%
	6	2.3	2.3	0	9	9	24.94%
	7	2.2	2.2	0	9	9	24.70%
	8	2.7	2.5	0	9	9	29.94%

\*One item was removed from scoring in Grade 6.

**Table 95. ELA Points Earned Summary by Subclaim**

Subclaim	Grade	Mean	SD	Min	Max	Max Points Possible	Average Percent Correct
RL	3	6.3	3.7	0	17	17	36.86%
	4	8.7	3.9	0	17	18	48.26%
	5	8.1	4.0	0	18	18	45.24%
	6	8.4	4.3	0	18	18	46.78%
	7	7.9	3.8	0	18	18	43.84%
	8	8.8	4.1	0	18	18	48.83%
RI	3	6.8	3.9	0	14	14	48.77%
	4	8.0	4.3	0	18	18	44.26%
	5	5.6	3.2	0	18	18	31.31%
	6	9.3	4.0	0	21	22	42.37%
	7	7.9	4.1	0	22	22	35.88%
	8	9.5	4.6	0	21	22	43.07%
RV	3	5.8	2.6	0	10	10	57.93%
	4	6.7	2.5	0	10	10	66.87%
	5	3.9	1.9	0	8	8	49.22%
	6	4.7	2.1	0	8	8	59.04%
	7	6.2	2.5	0	10	10	61.80%
	8	4.7	2.7	0	10	10	46.73%
WE (unweighted)	3	1.3	1.1	0	6	6	21.21%
	4	1.4	1.3	0	7	7	20.10%
	5	1.3	1.3	0	7	7	18.69%
	6	1.4	1.2	0	7	8	17.98%
	7	1.9	1.6	0	8	8	24.11%
	8	2.4	1.9	0	8	8	30.19%
WKL	3	1.2	1.2	0	6	6	20.30%
	4	1.5	1.4	0	6	6	25.03%
	5	1.2	1.2	0	6	6	20.29%
	6	1.3	1.4	0	6	6	21.81%
	7	1.9	1.6	0	6	6	31.43%
	8	2.3	1.9	0	6	6	38.82%

**Table 96. CSLA Points Earned Summary by Subclaim**

<b>Subclaim</b>	<b>Grade</b>	<b>Mean</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>	<b>Max Points Possible</b>	<b>Average Percent Correct</b>
RL	3	6.0	4.0	0	17	17	35.44%
	4	9.9	5.0	1	18	20	49.34%
RI	3	3.1	2.4	0	12	12	26.11%
	4	5.4	3.8	0	17	18	30.11%
RV	3	3.5	2.7	0	10	10	34.59%
	4	3.3	2.3	0	8	8	41.68%
WE (unweighted)	3	1.6	1.5	0	6	6	26.21%
	4	2.5	1.8	0	6	7	35.06%
WKL	3	1.7	1.7	0	6	6	27.66%
	4	2.4	1.8	0	6	6	40.28%

\*One item was removed from scoring in Grade 3.

**Table 97. Grade 8 Science Percent Correct Performance Summary by GLE**

Content Standard	GLE	Mean	SD	Average Percent Correct	Min Score	Max Score	Max Points Possible
Physical Science	1	2.9	2.0	41.5%	0	7	7
	2	3.1	1.8	44.0%	0	7	7
	3	2.0	1.5	34.0%	0	6	6
	4	3.3	1.7	42.0%	0	8	8
Life Science	1	4.4	2.5	39.5%	0	11	11
	2	4.4	3.3	34.2%	0	13	13
Earth Systems Science	1	2.2	1.8	37.2%	0	6	6
	2	2.6	1.7	43.1%	0	6	6
	3	3.9	2.3	48.9%	0	8	8
	4	1.8	1.7	25.8%	0	7	7

**Table 98. Mathematics Grade 3 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	0.00%	0.79	0.49
2	0.60%	0.75	0.48
3	0.20%	0.72	0.54
4	2.70%	0.58	0.44
5	0.50%	0.50	0.60
6	3.10%	0.42	0.62
7	0.80%	0.46	0.56
8	2.20%	0.48	0.42
9	0.20%	0.61	0.52
10	0.40%	0.30	0.43
11	0.60%	0.80	0.47
12	0.50%	0.79	0.35
13	2.00%	0.45	0.59
14	0.60%	0.56	0.53
15	0.90%	0.25	0.39
16	0.00%	0.84	0.45
17	0.10%	0.37	0.59
18	0.10%	0.52	0.42
19	0.30%	0.66	0.52
20	2.90%	0.40	0.72
21	0.60%	0.65	0.61
22	0.20%	0.83	0.39
23	0.40%	0.54	0.65
24	0.50%	0.49	0.64
25	0.80%	0.64	0.61
26	0.20%	0.60	0.57
27	0.50%	0.71	0.49
28	1.60%	0.37	0.69
29	1.80%	0.48	0.49
30	2.90%	0.36	0.71
31	2.80%	0.33	0.75

**Table 99. Mathematics Grade 3 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	3	2.40	35.95	14.86	35.82	10.95		0.40	0.57
2	4	1.30	36.09	40.78	14.50	6.22	1.08	0.23	0.60

**Table 100. Mathematics Grade 4 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	1.50%	0.21	0.54
2	0.30%	0.40	0.45
3	0.30%	0.62	0.52
4	0.70%	0.38	0.60
5	0.40%	0.67	0.49
6	1.70%	0.16	0.53
7	0.10%	0.70	0.58
8	1.90%	0.42	0.53
9	1.70%	0.15	0.56
10	1.30%	0.58	0.38
11	0.70%	0.33	0.54
12	1.90%	0.33	0.64
13	2.20%	0.27	0.71
14	0.50%	0.47	0.70
15	4.00%	0.50	0.46
16	4.60%	0.35	0.82
17	3.20%	0.37	0.75
18	0.60%	0.76	0.46
19	2.80%	0.42	0.54
20	0.50%	0.53	0.58
21	4.70%	0.38	0.42
22	0.60%	0.60	0.53
23	3.10%	0.36	0.59
24	2.90%	0.44	0.60
25	0.80%	0.31	0.53
26	1.40%	0.32	0.50
27	0.50%	0.61	0.62
28	5.70%	0.24	0.75

**Table 101. Mathematics Grade 4 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	3	4.80	68.16	15.35	8.36	3.37		0.14	0.55
2	3	2.90	54.59	23.32	9.65	9.55		0.24	0.73

**Table 102. Mathematics Grade 5 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	0.10%	0.70	0.54
2	0.10%	0.53	0.55
3	0.80%	0.36	0.45
4	0.50%	0.68	0.50
5	1.60%	0.39	0.61
6	0.40%	0.72	0.33
7	1.50%	0.66	0.55
8	0.20%	0.40	0.63
9	0.10%	0.64	0.44
10	0.00%	0.26	0.42
11	0.00%	0.72	0.52
12	0.10%	0.58	0.70
13	1.70%	0.39	0.59
14	0.30%	0.56	0.61
15	1.40%	0.27	0.78
16	1.50%	0.23	0.76
17	0.30%	0.56	0.50
18	0.00%	0.84	0.25
19	0.80%	0.50	0.63
20	2.20%	0.47	0.41
21	0.20%	0.48	0.52
22	0.60%	0.39	0.57
23	0.60%	0.46	0.54
24	0.20%	0.34	0.46
25	0.90%	0.39	0.75
26	0.10%	0.47	0.74
27	0.60%	0.32	0.62
28	2.70%	0.30	0.77

**Table 103. Mathematics Grade 5 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	3	3.80	53.15	29.30	10.82	2.97		0.20	0.66
2	4	1.60	46.76	19.95	16.40	7.48	7.87	0.27	0.71

**Table 104. Mathematics Grade 6 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	1.00%	0.51	0.49
2	0.20%	0.21	0.32
3	0.20%	0.58	0.52
4	0.30%	0.38	0.44
5	0.40%	0.19	0.45
6	0.60%	0.39	0.16
7	0.50%	0.60	0.41
8	0.60%	0.28	0.49
9	0.80%	0.09	0.38
10	3.40%	0.16	0.35
11	0.40%	0.40	0.40
12	0.00%	0.58	0.55
13	0.30%	0.28	0.48
14	0.80%	0.27	0.52
15	1.70%	0.21	0.51
16	0.20%	0.25	0.58
17	0.20%	0.32	0.52
18	1.90%	0.20	0.54
19	3.90%	0.25	0.64
20	2.80%	0.22	0.61
21	1.20%	0.25	0.74
22	0.20%	0.41	0.51
23	0.50%	0.35	0.65
24	3.10%	0.22	0.80

**Table 105. Mathematics Grade 6 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	4	3.00	48.21	9.91	9.40	14.07	15.41	0.33	0.77
2	3	1.20	36.32	12.72	27.93	21.79		0.45	0.73
3	3	1.30	47.71	19.66	22.20	9.16		0.31	0.69
4	4	2.80	67.55	8.05	12.31	5.32	3.96	0.16	0.71

**Table 106. Mathematics Grade 7 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	0.40%	0.47	0.56
2	0.10%	0.23	0.49
3	0.00%	0.51	0.54
4	0.10%	0.49	0.31
5	0.00%	0.70	0.48
6	0.10%	0.19	0.52
7	0.10%	0.47	0.45
8	1.10%	0.14	0.55
9	0.10%	0.23	0.39
10	0.60%	0.33	0.39
11	2.30%	0.61	0.36
12	0.60%	0.32	0.24
13	0.80%	0.14	0.43
14	0.90%	0.17	0.66
15	0.40%	0.41	0.51
16	2.50%	0.28	0.81
17	3.80%	0.21	0.70
18	0.40%	0.25	0.48
19	0.20%	0.23	0.46
20	0.20%	0.31	0.69
21	0.10%	0.43	0.26
22	0.10%	0.51	0.42
23	0.10%	0.21	0.26
24	0.10%	0.22	0.64
25	0.60%	0.58	0.44
26	1.60%	0.14	0.60

**Table 107. Mathematics Grade 7 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	3	3.60	58.62	12.51	15.44	9.83		0.24	0.74
2	4	3.00	52.82	19.24	6.96	8.28	9.73	0.24	0.74
3	3	3.10	53.45	33.10	8.77	1.61		0.19	0.61

**Table 108. Mathematics Grade 8 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	0.30%	0.34	0.67
2	0.10%	0.37	0.27
3	0.10%	0.42	0.54
4	0.10%	0.33	0.46
5	1.20%	0.14	0.62
6	0.10%	0.25	0.36
7	0.10%	0.85	0.33
8	0.10%	0.68	0.41
9	0.70%	0.26	0.46
10	2.50%	0.11	0.58
11	0.40%	0.31	0.50
12	0.20%	0.50	0.49
13	0.30%	0.32	0.70
14	4.50%	0.39	0.80
15	4.40%	0.21	0.75
16	0.40%	0.73	0.50
17	0.30%	0.30	0.53
18	0.10%	0.53	0.36
19	1.60%	0.23	0.55
20	0.20%	0.45	0.28
21	0.10%	0.57	0.38
22	0.40%	0.40	0.66
23	0.10%	0.30	0.38
24	1.30%	0.37	0.67
25	0.10%	0.43	0.52
26	4.40%	0.19	0.74

**Table 109. Mathematics Grade 8 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	4	4.90	75.34	9.88	4.45	4.11	1.34	0.09	0.67
2	3	3.40	76.98	10.49	6.56	2.62		0.11	0.61

**Table 110. ELA Grade 3 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	0.60%	0.22	0.38
2	0.60%	0.37	0.42
3	0.50%	0.29	0.30
4	1.50%	0.55	0.53
5	2.30%	0.43	0.54
6	0.40%	0.82	0.51
7	0.10%	0.64	0.60
8	0.20%	0.66	0.54
9	0.20%	0.42	0.54
10	0.00%	0.69	0.54
11	0.10%	0.37	0.50
12	0.20%	0.49	0.53
13	0.20%	0.43	0.58
14	0.20%	0.38	0.58
15	1.70%	0.63	0.58
16	2.50%	0.47	0.61
17	2.30%	0.52	0.52
18	2.30%	0.31	0.57
19	3.30%	0.44	0.68

**Table 111. ELA Grade 3 Constructed-Response Item Classical Statistics**

Item	Max Point s	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	3	1.80	43.46	47.48	6.87	0.44		0.21	0.67
PCR 1 WKL	3	1.80	50.36	36.72	10.57	0.60		0.20	0.62
PCR 2 WE	3	1.90	42.93	46.69	7.85	0.59		0.21	0.79
PCR 2 WKL	3	1.90	45.93	44.28	7.20	0.64		0.20	0.65

**Table 112. ELA Grade 4 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	0.00%	0.66	0.44
2	0.50%	0.35	0.36
3	0.10%	0.51	0.50
4	0.00%	0.58	0.51
5	0.40%	0.47	0.46
6	0.20%	0.83	0.50
7	0.40%	0.31	0.34
8	0.40%	0.64	0.65
9	0.50%	0.55	0.60
10	0.20%	0.27	0.32
11	0.20%	0.48	0.59
12	0.40%	0.49	0.46
13	0.30%	0.77	0.52
14	0.40%	0.47	0.59
15	0.50%	0.31	0.40
16	0.40%	0.48	0.57
17	0.10%	0.62	0.55
18	0.10%	0.66	0.44
19	0.10%	0.75	0.44
20	0.20%	0.52	0.68
21	0.10%	0.69	0.66

**Table 113. ELA Grade 4 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	3	0.60	39.58	44.61	11.70	3.52		0.26	0.69
PCR 1 WKL	3	0.60	39.37	44.09	12.53	3.42		0.27	0.70
PCR 2 WE	4	0.90	48.68	40.40	8.63	1.31	0.08	0.16	0.73
PCR 2 WKL	3	0.90	45.78	39.58	10.84	2.90		0.23	0.69

**Table 114. ELA Grade 5 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	0.20%	0.40	0.45
2	0.20%	0.30	0.53
3	0.20%	0.39	0.40
4	0.20%	0.30	0.39
5	0.00%	0.36	0.32
6	0.30%	0.56	0.30
7	0.10%	0.50	0.40
8	0.20%	0.31	0.49
9	0.30%	0.25	0.43
10	0.20%	0.22	0.35
11	0.10%	0.45	0.45
12	0.40%	0.37	0.45
13	0.60%	0.39	0.50
14	0.30%	0.70	0.58
15	0.40%	0.44	0.54
16	0.20%	0.39	0.51
17	0.20%	0.55	0.47
18	0.20%	0.62	0.28
19	0.40%	0.52	0.52
20	0.30%	0.49	0.53

**Table 115. ELA Grade 5 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	3	0.80	50.77	33.73	11.73	2.93		0.22	0.76
PCR 1 WKL	3	0.80	57.57	27.76	11.33	2.49		0.19	0.71
PCR 2 WE	4	1.50	44.20	45.98	7.35	0.79	0.13	0.16	0.70
PCR 2 WKL	3	1.50	43.48	48.76	5.36	0.85		0.21	0.66

**Table 116. ELA Grade 6 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item– Total Corr.
1	0.80%	0.31	0.36
2	0.80%	0.48	0.45
3	0.90%	0.36	0.46
4	0.80%	0.77	0.47
5	0.80%	0.35	0.34
6	0.80%	0.72	0.55
7	0.10%	0.34	0.42
8	0.20%	0.61	0.37
9	0.10%	0.39	0.39
10	0.30%	0.54	0.40
11	0.30%	0.56	0.54
12	0.40%	0.43	0.41
13	0.30%	0.31	0.52
14	0.10%	0.68	0.48
15	0.80%	0.43	0.53
16	0.70%	0.51	0.59
17	0.70%	0.47	0.53
18	0.70%	0.51	0.61
19	1.30%	0.68	0.40
20	1.90%	0.54	0.30
21	1.50%	0.48	0.40
22	1.70%	0.445	0.30877 5

**Table 117. ELA Grade 6 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	4	1.70	57.23	30.53	9.11	1.34	0.10	0.13	0.75
PCR 1 WKL	3	1.70	54.32	29.70	12.06	2.23		0.20	0.71
PCR 2 WE	4	2.10	28.13	57.91	9.15	2.42	0.33	0.21	0.70
PCR 2 WKL	3	2.10	45.83	42.21	8.53	1.36		0.21	0.68

**Table 118. ELA Grade 7 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	0.80%	0.60	0.49
2	0.80%	0.31	0.39
3	0.90%	0.32	0.52
4	0.90%	0.42	0.50
5	0.90%	0.44	0.50
6	0.90%	0.43	0.38
7	0.90%	0.54	0.62
8	0.80%	0.67	0.57
9	0.80%	0.34	0.41
10	0.80%	0.46	0.56
11	0.80%	0.44	0.38
12	0.70%	0.56	0.45
13	0.70%	0.64	0.36
14	1.00%	0.63	0.44
15	0.80%	0.48	0.35
16	0.90%	0.42	0.49
17	0.00%	0.83	0.38
18	0.00%	0.32	0.27
19	0.10%	0.26	0.25
20	0.10%	0.39	0.48
21	0.50%	0.47	0.36
22	0.10%	0.28	0.37

**Table 119. ELA Grade 7 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	4	2.50	42.71	37.86	13.49	2.95	0.46	0.19	0.82
PCR 1 WKL	3	2.50	37.05	45.54	12.43	2.44		0.26	0.78
PCR 2 WE	4	1.60	27.14	40.27	22.90	6.88	1.21	0.28	0.79
PCR 2 WKL	3	1.60	32.79	33.29	24.16	8.15		0.35	0.78

**Table 120. ELA Grade 8 Selected-Response Item Classical Statistics**

Item	Omit %	p-value	Item–Total Corr.
1	0.50%	0.59	0.64
2	0.50%	0.53	0.55
3	0.50%	0.48	0.45
4	0.50%	0.44	0.46
5	0.50%	0.39	0.49
6	0.00%	0.29	0.37
7	2.70%	0.44	0.50
8	0.00%	0.65	0.48
9	0.00%	0.50	0.58
10	0.00%	0.33	0.42
11	0.00%	0.56	0.50
12	0.10%	0.27	0.30
13	0.60%	0.46	0.49
14	0.10%	0.66	0.40
15	0.00%	0.47	0.39
16	0.00%	0.35	0.37
17	0.10%	0.38	0.52
18	0.60%	0.59	0.54
19	0.60%	0.27	0.31
20	0.50%	0.55	0.56
21	0.60%	0.58	0.38
22	0.50%	0.71	0.55
23	0.60%	0.32	0.39

**Table 121. ELA Grade 8 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	4	2.00	28.07	30.36	30.11	8.54	0.90	0.30	0.84
PCR 1 WKL	3	2.00	28.80	29.60	31.79	7.78		0.39	0.82
PCR 2 WE	4	1.40	30.80	31.38	26.90	7.93	1.56	0.29	0.85
PCR 2 WKL	3	1.40	34.47	27.24	26.49	10.36		0.37	0.82

**Table 122. CSLA Grade 3 Selected-Response Item Classical Statistics**

Item	Omit %	P-Value	Item- Total Corr.
1	3.50%	0.48	0.50
2	2.90%	0.33	0.38
3	3.30%	0.47	0.53
4	3.00%	0.25	0.36
5	3.00%	0.44	0.54
6	3.20%	0.25	0.43
7	3.60%	0.14	0.37
8	3.70%	0.21	0.40
9	3.30%	0.28	0.44
10	3.30%	0.19	0.25
11	5.10%	0.38	0.55
12	5.00%	0.35	0.56
13	5.50%	0.40	0.59
14	5.00%	0.39	0.54
15	2.00%	0.31	0.43
16	1.70%	0.33	0.51
17	1.70%	0.30	0.54
18	1.60%	0.43	0.42

**Table 123. CSLA Grade 3 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	P-Value	Item-Total Corr.
PCR 1 WE	3	6.20	40.38	31.90	19.24	2.27	0.26	0.67
PCR 1 WKL	3	6.20	37.75	37.40	11.71	6.93	0.27	0.60
PCR 2 WE	3	5.40	51.02	17.44	16.01	10.16	0.27	0.69
PCR 2 WKL	3	5.40	42.65	30.47	10.75	10.75	0.28	0.62

**Table 124. CSLA Grade 4 Selected-Response Item Classical Statistics**

Item	Omit %	P-Value	Item- Total Corr.
1	3.80%	0.29	0.31
2	3.80%	0.24	0.25
3	3.80%	0.39	0.48
4	3.80%	0.26	0.50
5	3.80%	0.75	0.62
6	3.80%	0.77	0.61
7	3.80%	0.64	0.64
8	3.80%	0.57	0.51
9	1.90%	0.41	0.56
10	1.90%	0.51	0.60
11	1.90%	0.48	0.52
12	1.90%	0.44	0.49
13	1.90%	0.39	0.50
14	1.90%	0.20	0.26
15	1.90%	0.15	-0.14
16	1.90%	0.28	0.31
17	1.90%	0.15	0.38
18	1.90%	0.52	0.50
19	1.90%	0.31	0.52
20	1.90%	0.55	0.62
21	1.90%	0.38	0.45

**Table 125. CSLA Grade 4 Constructed-Response Item Classical Statistics**

Item	Max Points	Omit %	0%	1%	2%	3%	4%	P-Value	Item-Total Corr.
PCR 1 WE	3	3.80	30.19	24.53	30.19	11.32		0.40	0.75
PCR 1 WKL	3	3.80	22.64	37.74	26.42	9.43		0.40	0.63
PCR 2 WE	4	1.90	28.30	24.53	33.96	11.32	0.00	0.32	0.85
PCR 2 WKL	3	1.90	24.53	43.40	11.32	18.87		0.41	0.66

**Table 126. Grade 8 Science Selected-Response Classical Statistics**

Item	% Omit	p-value	Item-Total Corr.	Item	% Omit	p-value	Item-Total Corr.
1	0.03	0.72	0.43	26	0.29	0.50	0.44
2	0.11	0.60	0.36	27	0.31	0.39	0.44
3	0.02	0.52	0.50	28	0.35	0.43	0.31
4	0.02	0.43	0.40	29	0.02	0.54	0.34
5	0.19	0.54	0.30	30	0.06	0.62	0.46
6	0.17	0.27	0.31	31	0.02	0.26	0.33
7	0.12	0.17	0.41	32	0.10	0.33	0.34
8	0.14	0.67	0.48	33	0.05	0.52	0.35
9	0.12	0.42	0.35	34	0.08	0.27	0.44
10	0.19	0.51	0.37	35	0.04	0.42	0.35
11	0.48	0.36	0.43	36	0.06	0.32	0.35
12	0.74	0.57	0.34	37	0.10	0.60	0.50
13	0.76	0.35	0.41	38	0.22	0.61	0.50
14	0.01	0.41	0.41	39	0.18	0.17	0.41
15	0.16	0.17	0.32	40	0.16	0.62	0.30
16	0.04	0.48	0.33	41	0.17	0.47	0.29
17	0.10	0.30	0.38	42	0.20	0.29	0.40
18	0.11	0.39	0.42				
19	0.06	0.27	0.26				
20	0.08	0.18	0.31				
21	0.09	0.55	0.45				
22	0.15	0.33	0.52				
23	0.24	0.51	0.41				
24	0.22	0.22	0.34				
25	0.18	0.86	0.30				

**Table 127. Grade 8 Science Constructed-Response Classical Statistics**

Item	Max Points	Omit %	%0	%1	%2	%3	p-value	Item-Total Corr.
1	2	2.17	54.78	38.88	4.16		0.24	0.50
2	2	1.57	32.12	16.46	49.85		0.58	0.60
3	3	2.35	52.68	37.64	5.96	1.37	0.18	0.57
4	2	3.89	42.57	20.26	33.28		0.43	0.65
5	2	1.28	47.56	21.06	30.10		0.41	0.61
6	2	1.33	28.90	7.49	62.27		0.66	0.62
7	2	1.30	76.40	14.82	7.48		0.15	0.44
8	3	2.75	60.55	12.21	14.00	10.50	0.24	0.67
9	2	2.41	62.63	25.78	9.18		0.22	0.64
10	2	2.19	42.39	19.15	36.27		0.46	0.70
11	2	2.72	43.99	30.80	22.50		0.38	0.66
12	2	1.25	68.68	20.10	9.96		0.20	0.56
13	2	1.94	69.15	19.64	9.27		0.19	0.54
14	3	2.58	46.38	10.74	11.83	28.47	0.40	0.76
15	2	1.96	54.90	30.85	12.29		0.28	0.65
16	2	2.52	46.07	22.95	28.45		0.40	0.69
17	2	1.73	35.38	46.26	16.64		0.40	0.56

**Table 128. Mathematics Correlations Between Subclaims**

Grade	Subclaim	B	C	D	Full Test
3	A	0.826	0.704	0.725	0.954
	B		0.657	0.691	0.895
	C			0.649	0.831
	D				0.838
4	A	0.763	0.770	0.787	0.964
	B		0.675	0.688	0.839
	C			0.729	0.878
	D				0.875
5	A	0.773	0.778	0.764	0.962
	B		0.674	0.697	0.857
	C			0.722	0.871
	D				0.868
6	A	0.691	0.751	0.736	0.930
	B		0.669	0.644	0.824
	C			0.747	0.899
	D				0.867
7	A	0.664	0.763	0.716	0.943
	B		0.618	0.585	0.785
	C			0.690	0.886
	D				0.840
8	A	0.728	0.766	0.724	0.952
	B		0.671	0.643	0.835
	C			0.670	0.865
	D				0.849

**Table 129. Correlations between Reading and Writing Claim Scores**

<b>Content Area</b>	<b>Grade</b>	<b>Correlation</b>
ELA	3	0.712
	4	0.627
	5	0.672
	6	0.701
	7	0.681
	8	0.722
CSLA	3	0.621
	4	0.721

**Table 130. ELA Correlations Between Subclaims**

Grade	Subclaim	RI	RV	WE	WKL	Full Test
3	RL	0.722	0.652	0.685	0.563	0.894
	RI		0.689	0.602	0.514	0.880
	RV			0.556	0.479	0.811
	WE				0.675	0.839
	WKL					0.704
4	RL	0.729	0.662	0.633	0.586	0.897
	RI		0.647	0.514	0.511	0.861
	RV			0.455	0.443	0.768
	WE				0.802	0.812
	WKL					0.758
5	RL	0.645	0.552	0.554	0.534	0.851
	RI		0.521	0.649	0.590	0.857
	RV			0.435	0.417	0.685
	WE				0.786	0.849
	WKL					0.776
6	RL	0.641	0.527	0.588	0.557	0.852
	RI		0.555	0.663	0.589	0.872
	RV			0.451	0.431	0.690
	WE				0.787	0.851
	WKL					0.775
7	RL	0.674	0.597	0.685	0.662	0.885
	RI		0.523	0.557	0.554	0.821
	RV			0.450	0.453	0.697
	WE				0.893	0.875
	WKL					0.843
8	RL	0.705	0.639	0.600	0.593	0.832
	RI		0.657	0.722	0.694	0.898
	RV			0.545	0.531	0.762
	WE				0.929	0.898
	WKL					0.870

**Table 131. CSLA Correlations Between Subclaims**

<b>Grade</b>	<b>Subclaim</b>	<b>RI</b>	<b>RV</b>	<b>WE</b>	<b>WKL</b>	<b>Full Test</b>
3	RL	0.578	0.670	0.623	0.484	0.881
	RI		0.572	0.425	0.387	0.716
	RV			0.457	0.392	0.770
	WE				0.631	0.842
	WKL					0.689
4	RL	0.528	0.567	0.731	0.528	0.878
	RI		0.567	0.525	0.441	0.755
	RV			0.515	0.339	0.710
	WE				0.730	0.901
	WKL					0.719

**Table 132. Science Correlations Between Content Standards**

<b>Content Area</b>	<b>Grade</b>	<b>Content Standard</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>Full Test</b>
Science	8	1	0.792	0.812	0.859	0.931
		2		0.812	0.853	0.921
		3			0.873	0.931
		4				0.924

**Table 133. Correlations Between Mathematics and ELA Scale Scores**

<b>Grade</b>	<b>N</b>	<b>Correlation</b>
3	5,887	0.79
4	5,699	0.77
5	5,909	0.75
6	5,358	0.74
7	5,450	0.75
8	4,407	0.76

*Note: Samples include only students with valid scores on both assessments.*

**Table 134. Correlations Between Grade 8 Mathematics, Science, and ELA Scale Scores**

Subjects	N	Correlation
Math with Science	36,394	0.83
ELA with Science	4,214	0.81

*Note: Samples include only students with valid scores on both assessments.*