

APPENDIX 15: RAW-TO-SCALE SCORE TABLES

MATHEMATICS

Table 15–1. Mathematics—Overall Test

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	61	0	0.00	0	0.00
1	100	61	0	0.00	0	0.00
2	125	44	1	0.01	1	0.01
3	151	36	2	0.02	3	0.03
4	171	32	0	0.00	3	0.03
5	187	29	7	0.06	10	0.09
6	200	27	5	0.04	15	0.13
7	211	26	24	0.21	39	0.35
8	222	24	38	0.34	77	0.69
9	231	23	45	0.40	122	1.09
10	240	23	80	0.71	202	1.80
11	248	22	92	0.82	294	2.62
12	256	21	122	1.09	416	3.71
13	263	21	134	1.19	550	4.90
14	270	20	154	1.37	704	6.27
15	277	20	162	1.44	866	7.72
16	284	20	203	1.81	1069	9.52
17	290	20	217	1.93	1286	11.46
18	297	19	224	2.00	1510	13.45
19	303	19	272	2.42	1782	15.88
20	309	19	280	2.49	2062	18.37
21	315	19	312	2.78	2374	21.15
22	321	19	283	2.52	2657	23.67
23	327	19	342	3.05	2999	26.72
24	333	19	312	2.78	3311	29.50
25	339	19	343	3.06	3654	32.56
26	345	19	365	3.25	4019	35.81
27	351	19	366	3.26	4385	39.07
28	357	19	346	3.08	4731	42.15
29	363	19	385	3.43	5116	45.58
30	370	19	370	3.30	5486	48.88
31	376	19	335	2.98	5821	51.86
32	382	20	377	3.36	6198	55.22
33	389	20	382	3.40	6580	58.62
34	395	20	361	3.22	6941	61.84
35	402	20	377	3.36	7318	65.20
36	409	21	343	3.06	7661	68.26
37	417	21	358	3.19	8019	71.45
38	424	22	348	3.10	8367	74.55
39	432	22	317	2.82	8684	77.37
40	441	23	345	3.07	9029	80.44

Table 15–1 (continued). Mathematics—Overall Test

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
41	450	24	337	3.00	9366	83.45
42	460	25	305	2.72	9671	86.16
43	472	27	310	2.76	9981	88.93
44	485	29	311	2.77	10292	91.70
45	500	32	297	2.65	10589	94.34
46	518	36	234	2.08	10823	96.43
47	543	42	196	1.75	11019	98.17
48	579	52	134	1.19	11153	99.37
49	600	73	56	0.50	11209	99.87
50	600	73	15	0.13	11224	100.00

Table 15–2. Mathematics—Numeration

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	112	9	0.08	9	0.08
1	169	65	66	0.59	75	0.67
2	222	50	257	2.29	332	2.96
3	259	45	500	4.45	832	7.41
4	290	43	981	8.74	1813	16.15
5	320	42	1444	12.87	3257	29.02
6	352	45	1897	16.90	5154	45.92
7	388	50	2366	21.08	7520	67.00
8	441	65	2307	20.55	9827	87.55
9	521	112	1397	12.45	11224	100.00

Table 15–3. Mathematics—Measurement

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	118	112	73	0.65	73	0.65
1	198	65	316	2.82	389	3.47
2	251	50	706	6.29	1095	9.76
3	289	46	1092	9.73	2187	19.49
4	322	44	1405	12.52	3592	32.00
5	356	46	1698	15.13	5290	47.13
6	394	51	1886	16.80	7176	63.93
7	448	65	2017	17.97	9193	81.90
8	528	112	2031	18.10	11224	100.00

Table 15–4. Mathematics—Estimation and Computation

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	135	112	159	1.42	159	1.42
1	215	65	557	4.96	716	6.38
2	270	51	1054	9.39	1770	15.77
3	308	46	1277	11.38	3047	27.15
4	343	45	1524	13.58	4571	40.73
5	376	44	1594	14.20	6165	54.93
6	408	44	1393	12.41	7558	67.34
7	441	46	1189	10.59	8747	77.93
8	483	57	1228	10.94	9975	88.87
9	547	103	1249	11.13	11224	100.00

Table 15–5. Mathematics—Functions and Relationships

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	151	114	353	3.15	353	3.15
1	236	68	893	7.96	1246	11.10
2	296	54	1429	12.73	2675	23.83
3	340	49	1706	15.20	4381	39.03
4	378	48	1811	16.14	6192	55.17
5	417	49	1680	14.97	7872	70.14
6	462	54	1456	12.97	9328	83.11
7	522	69	1264	11.26	10592	94.37
8	600	114	632	5.63	11224	100.00

Table 15–6. Mathematics—Geometry

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	182	118	484	4.31	484	4.31
1	277	74	1616	14.40	2100	18.71
2	346	57	2306	20.55	4406	39.26
3	393	50	2212	19.71	6618	58.96
4	433	49	1682	14.99	8300	73.95
5	475	52	1281	11.41	9581	85.36
6	528	63	954	8.50	10535	93.86
7	600	93	579	5.16	11114	99.02
8	600	93	110	0.98	11224	100.00

Table 15–7. Mathematics—Statistics/Probability

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	112	44	0.39	44	0.39
1	162	66	179	1.59	223	1.99
2	217	51	414	3.69	637	5.68
3	256	46	657	5.85	1294	11.53
4	290	45	937	8.35	2231	19.88
5	325	46	1369	12.20	3600	32.07
6	364	51	2089	18.61	5689	50.69
7	420	66	2758	24.57	8447	75.26
8	501	113	2777	24.74	11224	100.00

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Table 15–8. Reading—Overall Test

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	42	0	0.00	0	0.00
1	100	42	1	0.01	1	0.01
2	100	42	1	0.01	2	0.02
3	100	42	1	0.01	3	0.03
4	109	37	1	0.01	4	0.04
5	127	33	1	0.01	5	0.06
6	141	31	1	0.01	6	0.07
7	154	29	1	0.01	7	0.08
8	166	27	3	0.03	10	0.11
9	176	26	7	0.08	17	0.19
10	185	25	6	0.07	23	0.25
11	194	24	7	0.08	30	0.33
12	202	23	10	0.11	40	0.44
13	210	23	19	0.21	59	0.65
14	217	22	19	0.21	78	0.86
15	224	22	30	0.33	108	1.19
16	231	21	50	0.55	158	1.74
17	237	21	50	0.55	208	2.29
18	244	21	81	0.89	289	3.19
19	250	20	72	0.79	361	3.98
20	256	20	71	0.78	432	4.77
21	261	20	87	0.96	519	5.72
22	267	20	82	0.90	601	6.63
23	272	19	89	0.98	690	7.61
24	278	19	108	1.19	798	8.80
25	283	19	103	1.14	901	9.94
26	288	19	112	1.24	1013	11.17
27	294	19	127	1.40	1140	12.57
28	299	19	112	1.24	1252	13.81
29	304	19	136	1.50	1388	15.31

Table 15–8 (continued). Reading—Overall Test

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
30	309	19	142	1.57	1530	16.88
31	314	19	142	1.57	1672	18.44
32	319	19	185	2.04	1857	20.48
33	324	19	171	1.89	2028	22.37
34	329	19	201	2.22	2229	24.59
35	334	19	187	2.06	2416	26.65
36	339	19	210	2.32	2626	28.97
37	345	19	211	2.33	2837	31.29
38	350	19	238	2.63	3075	33.92
39	355	19	238	2.63	3313	36.54
40	360	19	254	2.80	3567	39.34
41	366	19	266	2.93	3833	42.28
42	371	20	257	2.83	4090	45.11
43	377	20	275	3.03	4365	48.15
44	382	20	297	3.28	4662	51.42
45	388	20	284	3.13	4946	54.56
46	394	20	307	3.39	5253	57.94
47	400	21	309	3.41	5562	61.35
48	407	21	315	3.47	5877	64.82
49	413	22	344	3.79	6221	68.62
50	420	22	326	3.60	6547	72.21
51	427	22	314	3.46	6861	75.68
52	435	23	310	3.42	7171	79.10
53	442	24	313	3.45	7484	82.55
54	451	24	289	3.19	7773	85.74
55	460	25	260	2.87	8033	88.61
56	469	26	241	2.66	8274	91.26
57	480	28	205	2.26	8479	93.53
58	492	29	181	2.00	8660	95.52
59	505	31	148	1.63	8808	97.15
60	520	34	104	1.15	8912	98.30
61	538	37	76	0.84	8988	99.14
62	561	42	45	0.50	9033	99.64
63	592	51	29	0.32	9062	99.96
64	600	71	4	0.04	9066	100.00
65	600	71	0	0.00	9066	100.00

Table 15–9. Reading—Use Context Clues

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	129	39	0.43	39	0.43
1	178	74	199	2.20	238	2.63
2	236	56	470	5.18	708	7.81
3	276	49	724	7.99	1432	15.80

Table 15–9 (continued). Reading—Use Context Clues

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
4	308	46	853	9.41	2285	25.20
5	339	46	1030	11.36	3315	36.57
6	369	47	1148	12.66	4463	49.23
7	402	50	1222	13.48	5685	62.71
8	443	57	1226	13.52	6911	76.23
9	502	75	1213	13.38	8124	89.61
10	593	130	942	10.39	9066	100.00

Table 15–10. Reading—Summarize Information

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	129	1	0.01	1	0.01
1	110	73	15	0.17	16	0.18
2	166	55	62	0.68	78	0.86
3	203	47	107	1.18	185	2.04
4	232	43	203	2.24	388	4.28
5	257	41	321	3.54	709	7.82
6	281	40	461	5.08	1170	12.91
7	304	40	624	6.88	1794	19.79
8	327	40	772	8.52	2566	28.30
9	351	42	979	10.80	3545	39.10
10	378	44	1145	12.63	4690	51.73
11	408	48	1366	15.07	6056	66.80
12	446	56	1279	14.11	7335	80.91
13	504	74	1152	12.71	8487	93.61
14	594	129	579	6.39	9066	100.00

Table 15–11. Reading—Critique Arguments

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	129	14	0.15	14	0.15
1	134	74	47	0.52	61	0.67
2	191	55	144	1.59	205	2.26
3	228	48	295	3.25	500	5.52
4	258	43	413	4.56	913	10.07
5	284	41	519	5.72	1432	15.80
6	307	40	639	7.05	2071	22.84
7	330	40	710	7.83	2781	30.68
8	353	40	819	9.03	3600	39.71
9	377	41	953	10.51	4553	50.22
10	403	44	1196	13.19	5749	63.41

Table 15–11 (continued). Reading—Critique Arguments

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
11	434	48	1185	13.07	6934	76.48
12	472	56	1121	12.36	8055	88.85
13	531	74	762	8.41	8817	97.25
14	600	130	249	2.75	9066	100.00

Table 15–12. Reading—Apply Multi-Step Directions

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	132	38	0.42	38	0.42
1	128	81	99	1.09	137	1.51
2	203	66	224	2.47	361	3.98
3	261	61	622	6.86	983	10.84
4	312	59	1289	14.22	2272	25.06
5	361	59	1874	20.67	4146	45.73
6	416	64	2143	23.64	6289	69.37
7	486	79	1825	20.13	8114	89.50
8	583	131	952	10.50	9066	100.00

Table 15–13. Reading—Make and Support Assertions

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	132	83	0.92	83	0.92
1	171	78	277	3.06	360	3.97
2	239	62	514	5.67	874	9.64
3	287	56	661	7.29	1535	16.93
4	330	54	1066	11.76	2601	28.69
5	372	54	1567	17.28	4168	45.97
6	416	58	1834	20.23	6002	66.20
7	471	66	1822	20.10	7824	86.30
8	551	85	998	11.01	8822	97.31
9	600	137	244	2.69	9066	100.00

Table 15–14. Reading—Analyze and Evaluate Themes

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	130	27	0.30	27	0.30
1	162	76	102	1.13	129	1.42
2	224	58	328	3.62	457	5.04

Table 15–14 (continued). Reading—Analyze and Evaluate Themes

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
3	267	52	580	6.40	1037	11.44
4	305	50	1023	11.28	2060	22.72
5	341	50	1301	14.35	3361	37.07
6	377	50	1486	16.39	4847	53.46
7	415	52	1610	17.76	6457	71.22
8	458	58	1280	14.12	7737	85.34
9	517	74	890	9.82	8627	95.16
10	600	129	439	4.84	9066	100.00

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Table 15–15. Reading—Overall Test

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	42	0	0.00	0	0.00
1	100	42	0	0.00	0	0.00
2	100	42	1	0.08	1	0.08
3	100	42	0	0.00	1	0.08
4	107	37	1	0.08	2	0.15
5	125	33	0	0.00	2	0.15
6	139	31	0	0.00	2	0.15
7	152	29	1	0.08	3	0.23
8	163	27	2	0.15	5	0.38
9	174	26	2	0.15	7	0.54
10	183	25	5	0.38	12	0.92
11	192	24	6	0.46	18	1.38
12	200	23	11	0.85	29	2.23
13	208	23	13	1.00	42	3.23
14	215	22	12	0.92	54	4.15
15	222	22	22	1.69	76	5.84
16	229	21	31	2.38	107	8.22
17	235	21	23	1.77	130	9.99
18	241	21	27	2.08	157	12.07
19	247	20	21	1.61	178	13.68
20	253	20	34	2.61	212	16.30
21	259	20	42	3.23	254	19.52
22	265	20	54	4.15	308	23.67
23	270	19	41	3.15	349	26.83
24	275	19	58	4.46	407	31.28
25	281	19	43	3.31	450	34.59
26	286	19	46	3.54	496	38.12

Table 15–15 (continued). Reading—Overall Test

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
27	291	19	45	3.46	541	41.58
28	296	19	46	3.54	587	45.12
29	301	19	46	3.54	633	48.65
30	307	19	49	3.77	682	52.42
31	312	19	48	3.69	730	56.11
32	317	19	38	2.92	768	59.03
33	322	19	37	2.84	805	61.88
34	327	19	27	2.08	832	63.95
35	332	19	31	2.38	863	66.33
36	337	19	33	2.54	896	68.87
37	342	19	22	1.69	918	70.56
38	347	19	33	2.54	951	73.10
39	353	19	25	1.92	976	75.02
40	358	19	28	2.15	1004	77.17
41	363	19	17	1.31	1021	78.48
42	369	20	27	2.08	1048	80.55
43	374	20	19	1.46	1067	82.01
44	380	20	16	1.23	1083	83.24
45	386	20	19	1.46	1102	84.70
46	392	20	17	1.31	1119	86.01
47	398	21	17	1.31	1136	87.32
48	404	21	19	1.46	1155	88.78
49	411	22	13	1.00	1168	89.78
50	418	22	27	2.08	1195	91.85
51	425	22	14	1.08	1209	92.93
52	432	23	18	1.38	1227	94.31
53	440	24	8	0.61	1235	94.93
54	448	24	20	1.54	1255	96.46
55	457	25	15	1.15	1270	97.62
56	467	26	7	0.54	1277	98.16
57	477	28	7	0.54	1284	98.69
58	489	29	8	0.61	1292	99.31
59	502	31	1	0.08	1293	99.39
60	517	34	4	0.31	1297	99.69
61	536	37	4	0.31	1301	100.00
62	558	42	0	0.00	1301	100.00
63	589	51	0	0.00	1301	100.00
64	600	71	0	0.00	1301	100.00
65	600	71	0	0.00	1301	100.00

Table 15–16. Reading—Use Context Clues

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	129	13	1.00	13	1.00
1	160	74	51	3.92	64	4.92
2	219	57	155	11.91	219	16.83
3	259	50	214	16.45	433	33.28
4	292	47	205	15.76	638	49.04
5	323	46	194	14.91	832	63.95
6	354	47	148	11.38	980	75.33
7	388	50	128	9.84	1108	85.17
8	428	57	86	6.61	1194	91.78
9	487	75	74	5.69	1268	97.46
10	578	130	33	2.54	1301	100.00

Table 15–17. Reading—Summarize Information

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	129	2	0.15	2	0.15
1	110	73	16	1.23	18	1.38
2	166	55	34	2.61	52	4.00
3	203	47	71	5.46	123	9.45
4	232	43	111	8.53	234	17.99
5	257	41	160	12.30	394	30.28
6	281	40	161	12.38	555	42.66
7	304	40	160	12.30	715	54.96
8	327	40	129	9.92	844	64.87
9	351	42	126	9.68	970	74.56
10	378	44	108	8.30	1078	82.86
11	408	48	90	6.92	1168	89.78
12	446	56	73	5.61	1241	95.39
13	504	74	39	3.00	1280	98.39
14	594	129	21	1.61	1301	100.00

Table 15–18. Reading—Critique Arguments

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	129	7	0.54	7	0.54
1	134	74	18	1.38	25	1.92
2	191	55	59	4.53	84	6.46
3	228	48	138	10.61	222	17.06
4	258	43	179	13.76	401	30.82
5	284	41	155	11.91	556	42.74

Table 15–18 (continued). Reading—Critique Arguments

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
6	307	40	174	13.37	730	56.11
7	330	40	132	10.15	862	66.26
8	353	40	122	9.38	984	75.63
9	377	41	81	6.23	1065	81.86
10	403	44	82	6.30	1147	88.16
11	434	48	59	4.53	1206	92.70
12	472	56	54	4.15	1260	96.85
13	531	74	25	1.92	1285	98.77
14	600	130	16	1.23	1301	100.00

Table 15–19. Reading—Apply Multi-Step Directions

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	132	29	2.23	29	2.23
1	128	81	52	4.00	81	6.23
2	203	66	106	8.15	187	14.37
3	261	61	209	16.06	396	30.44
4	312	59	235	18.06	631	48.50
5	361	59	241	18.52	872	67.03
6	416	64	212	16.30	1084	83.32
7	486	79	151	11.61	1235	94.93
8	583	131	66	5.07	1301	100.00

Table 15–20. Reading—Make and Support Assertions

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	132	50	3.84	50	3.84
1	171	78	154	11.84	204	15.68
2	239	62	200	15.37	404	31.05
3	287	56	233	17.91	637	48.96
4	330	54	194	14.91	831	63.87
5	372	54	183	14.07	1014	77.94
6	416	58	142	10.91	1156	88.85
7	471	66	97	7.46	1253	96.31
8	551	85	40	3.07	1293	99.39
9	600	137	8	0.61	1301	100.00

Table 15–21. Reading—Analyze and Evaluate Themes

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	130	13	1.00	13	1.00
1	162	76	40	3.07	53	4.07
2	224	58	114	8.76	167	12.84
3	267	52	241	18.52	408	31.36
4	305	50	227	17.45	635	48.81
5	341	50	210	16.14	845	64.95
6	377	50	181	13.91	1026	78.86
7	415	52	116	8.92	1142	87.78
8	458	58	98	7.53	1240	95.31
9	517	74	42	3.23	1282	98.54
10	600	129	19	1.46	1301	100.00

WRITING

Table 15–22. Writing—Overall Test

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	55	0	0.00	0	0.00
1	100	55	1	0.01	1	0.01
2	107	38	1	0.01	2	0.02
3	128	31	4	0.04	6	0.05
4	143	27	2	0.02	8	0.07
5	155	24	8	0.07	16	0.14
6	165	22	7	0.06	23	0.21
7	173	21	10	0.09	33	0.30
8	180	20	6	0.05	39	0.35
9	187	19	9	0.08	48	0.43
10	193	18	20	0.18	68	0.62
11	198	17	14	0.13	82	0.74
12	204	17	14	0.13	96	0.87
13	209	16	15	0.14	111	1.01
14	213	16	17	0.15	128	1.16
15	218	16	36	0.33	164	1.49
16	222	15	32	0.29	196	1.78
17	226	15	47	0.43	243	2.20
18	230	15	41	0.37	284	2.57
19	234	15	55	0.50	339	3.07
20	238	15	43	0.39	382	3.46
21	242	15	56	0.51	438	3.97
22	246	15	68	0.62	506	4.58
23	250	15	93	0.84	599	5.42
24	254	15	110	1.00	709	6.42

Table 15–22 (continued). Writing—Overall Test

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
25	258	15	106	0.96	815	7.38
26	262	15	95	0.86	910	8.24
27	266	15	143	1.30	1053	9.54
28	271	15	153	1.39	1206	10.92
29	275	15	167	1.51	1373	12.43
30	279	15	196	1.78	1569	14.21
31	283	16	205	1.86	1774	16.07
32	288	16	246	2.23	2020	18.29
33	292	16	282	2.55	2302	20.85
34	297	16	315	2.85	2617	23.70
35	302	16	283	2.56	2900	26.26
36	307	17	364	3.30	3264	29.56
37	312	17	378	3.42	3642	32.98
38	317	17	372	3.37	4014	36.35
39	323	17	375	3.40	4389	39.75
40	328	18	445	4.03	4834	43.78
41	334	18	458	4.15	5292	47.93
42	340	18	446	4.04	5738	51.97
43	346	18	456	4.13	6194	56.09
44	352	19	454	4.11	6648	60.21
45	358	19	477	4.32	7125	64.53
46	365	19	485	4.39	7610	68.92
47	372	20	443	4.01	8053	72.93
48	379	20	431	3.90	8484	76.83
49	387	21	404	3.66	8888	80.49
50	395	21	363	3.29	9251	83.78
51	403	22	321	2.91	9572	86.69
52	412	22	284	2.57	9856	89.26
53	421	23	276	2.50	10132	91.76
54	431	24	209	1.89	10341	93.65
55	441	24	166	1.50	10507	95.15
56	453	25	151	1.37	10658	96.52
57	464	26	109	0.99	10767	97.51
58	477	27	91	0.82	10858	98.33
59	491	28	56	0.51	10914	98.84
60	506	29	37	0.34	10951	99.18
61	523	31	44	0.40	10995	99.57
62	541	33	24	0.22	11019	99.79
63	564	37	15	0.14	11034	99.93
64	592	43	5	0.05	11039	99.97
65	600	58	2	0.02	11041	99.99
66	600	58	1	0.01	11042	100.00

Table 15–23. Writing—Write Composition

Raw Score ¹	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	93	103	0.93	103	0.93
2	155	34	23	0.21	126	1.14
4	155	34	56	0.51	182	1.65
6	204	21	63	0.57	245	2.22
8	219	20	126	1.14	371	3.36
10	232	19	154	1.39	525	4.75
12	246	19	326	2.95	851	7.71
14	259	20	462	4.18	1313	11.89
16	275	21	786	7.12	2099	19.01
18	293	24	1340	12.14	3439	31.14
20	315	26	1523	13.79	4962	44.94
22	343	29	1838	16.65	6800	61.58
24	375	31	1629	14.75	8429	76.34
26	410	32	1327	12.02	9756	88.35
28	447	32	669	6.06	10425	94.41
30	485	33	353	3.20	10778	97.61
32	528	36	192	1.74	10970	99.35
34	584	45	68	0.62	11038	99.96
36	600	59	4	0.04	11042	100.00

Table 15–24. Writing—Use Conventional English

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	103	5	0.05	5	0.05
1	129	59	22	0.20	27	0.24
2	176	44	79	0.72	106	0.96
3	206	38	146	1.32	252	2.28
4	230	35	261	2.36	513	4.65
5	250	33	396	3.59	909	8.23
6	268	31	535	4.85	1444	13.08
7	285	30	764	6.92	2208	20.00
8	302	30	920	8.33	3128	28.33
9	319	30	1085	9.83	4213	38.15
10	336	31	1142	10.34	5355	48.50
11	354	33	1326	12.01	6681	60.51
12	375	35	1321	11.96	8002	72.47
13	399	39	1170	10.60	9172	83.06
14	431	46	1029	9.32	10201	92.38
15	480	61	647	5.86	10848	98.24
16	556	105	194	1.76	11042	100.00

¹ Only even scores are possible due to item weighting.

Table 15–25. Writing—Revise Writing for Word Choice

Raw Score	Scale Score	SS SE	Frequency	Frequency Percent	Cumulative Frequency	Cumulative Percent
0	100	103	6	0.05	6	0.05
1	133	58	36	0.33	42	0.38
2	178	44	81	0.73	123	1.11
3	207	38	196	1.78	319	2.89
4	231	35	305	2.76	624	5.65
5	251	33	445	4.03	1069	9.68
6	270	32	637	5.77	1706	15.45
7	288	32	806	7.30	2512	22.75
8	307	32	1047	9.48	3559	32.23
9	326	33	1209	10.95	4768	43.18
10	347	36	1421	12.87	6189	56.05
11	372	39	1546	14.00	7735	70.05
12	404	46	1430	12.95	9165	83.00
13	453	61	1300	11.77	10465	94.77
14	528	104	577	5.23	11042	100.00