

APPENDIX 13: OPERATIONAL TEST ITEM ANALYSIS

GRADE 4

Table 13–1. Grade 4—Multiple-Choice Items

Form	Seq	Logit	SE	Fit ¹	p-value	PtBis	Omits
4SB	1	-2.45	0.05	-2.0	0.95	0.30	0.16
4SB	2	1.52	0.02	9.9*	0.39	0.20	0.10
4SB	3	-0.09	0.02	5.8*	0.70	0.34	0.13
4SB	4	0.35	0.02	-1.5	0.61	0.43	0.22
4SB	5	0.09	0.02	0.1	0.66	0.38	0.99
4SB	6	0.43	0.02	-5.9	0.56	0.49	0.14
4SB	7	1.06	0.02	9.9*	0.50	0.21	0.38
4SB	8	-2.06	0.04	-2.4	0.93	0.27	0.19
4SB	11	0.38	0.02	-6.4	0.66	0.44	0.15
4SB	12	0.00	0.02	1.4	0.68	0.35	0.44
4SB	13	-0.55	0.03	-3.1	0.74	0.49	0.53
4SB	14	-0.07	0.02	-9.9	0.69	0.53	0.80
4SB	15	0.85	0.02	1.5	0.54	0.41	0.34
4SB	16	0.48	0.02	-9.7	0.59	0.49	0.67
4SB	17	-0.14	0.03	-9.3	0.70	0.51	0.26
4SB	18	1.19	0.02	-2.8	0.45	0.44	0.27
4SB	19	0.16	0.02	2.0	0.63	0.39	1.13
4SB	20	-0.49	0.03	0.3	0.75	0.38	0.34
4SB	21	-1.63	0.04	-2.0	0.89	0.35	0.39
4SB	22	1.35	0.02	9.9*	0.42	0.32	0.70
4SB	23	-1.39	0.03	-0.3	0.86	0.33	0.27
4SB	26	-0.83	0.03	-9.5	0.81	0.48	0.35
4SB	27	1.54	0.02	9.9*	0.39	0.22	0.50
4SB	28	-0.89	0.03	-9.9	0.80	0.51	0.37
4SB	29	0.54	0.02	-7.5	0.62	0.46	0.56
4SB	31	-0.34	0.03	-6.7	0.74	0.47	0.40
4SB	32	0.28	0.02	6.7*	0.63	0.35	0.68
4SB	33	-0.26	0.03	-2.8	0.72	0.41	0.71
4SB	34	0.11	0.02	2.1	0.66	0.38	0.31
4SB	35	0.66	0.02	0.2	0.56	0.42	0.35
4SB	36	-0.66	0.03	-8.3	0.78	0.49	1.23
4SB	37	-0.65	0.03	-4.7	0.78	0.42	0.71
4SB	38	0.69	0.02	9.9*	0.55	0.26	0.58
4SB	39	0.42	0.02	-9.9	0.62	0.50	0.69
4SB	42	-0.60	0.03	-9.1	0.78	0.46	0.27
4SB	43	0.02	0.02	-1.7	0.67	0.42	0.86
4SB	44	0.32	0.02	9.9*	0.62	0.27	0.57

¹ Values with a “*” were flagged if outfit >+5.0.

Table 13–1 (continued). Grade 4—Multiple-Choice Items

Form	Seq	Logit	SE	Fit ¹	p-value	PtBis	Omits
4SB	45	-0.57	0.03	1.6	0.77	0.37	0.72
4SB	46	0.40	0.02	0.8	0.61	0.38	0.92
4SB	47	0.88	0.02	8.6*	0.51	0.32	0.35
4SB	48	0.19	0.02	-9.9	0.65	0.51	0.34
4SB	49	0.65	0.02	2.6	0.56	0.38	0.51
4SB	50	0.00	0.02	4.8	0.68	0.33	0.40
4SB	51	-0.21	0.03	-4.2	0.71	0.42	0.64
4SB	52	-0.09	0.02	7.0*	0.69	0.34	0.32
4SB	53	0.76	0.02	9.9*	0.54	0.32	0.41

Table 13–2. Grade 4—Constructed-Response Items

Form	Seq	Max Pts	Logit	SE	Fit ¹	p-value ²	PtBis	Omits
4SB	10	2	1.20	0.02	-2.7	0.45	0.53	2.30
4SB	25	2	0.98	0.03	0.8	0.49	0.41	1.99

GRADE 8

Table 13–3. Grade 8—Multiple-Choice Items

Form	Seq	Logit	SE	Fit ¹	p-value	PtBis	Omits
8SB	1	0.21	0.03	1.0	0.64	0.37	0.12
8SB	2	-0.18	0.03	7.4*	0.71	0.28	0.03
8SB	3	0.09	0.03	-2.1	0.66	0.39	0.08
8SB	4	-0.49	0.04	-5.9	0.76	0.41	0.16
8SB	5	-0.83	0.04	8.2*	0.81	0.21	0.07
8SB	6	-1.13	0.04	-3.8	0.85	0.37	0.10
8SB	7	-0.28	0.04	0.2	0.73	0.34	0.19
8SB	8	-0.87	0.04	-4.0	0.82	0.37	0.02
8SB	10	-0.11	0.03	-7.7	0.70	0.47	0.03
8SB	11	-1.32	0.04	-9.9	0.88	0.47	0.09
8SB	12	-0.87	0.04	-6.2	0.80	0.46	0.26
8SB	13	1.54	0.03	9.9*	0.38	0.26	0.25
8SB	14	-0.80	0.04	3.7	0.81	0.27	0.04
8SB	15	0.46	0.03	9.6*	0.59	0.30	0.11
8SB	16	0.07	0.03	-2.3	0.65	0.41	0.14
8SB	17	0.39	0.03	-4.9	0.60	0.45	0.13

¹ Values with a “*” were flagged if outfit >+5.0.

² p-value = Mean Score/Maximum Score

Table 13–3 (continued). Grade 8—Multiple-Choice Items

Form	Seq	Logit	SE	Fit¹	p-value	PtBis	Omits
8SB	18	0.66	0.03	8.2*	0.55	0.30	0.21
8SB	21	1.10	0.03	9.9*	0.47	0.27	0.19
8SB	22	0.56	0.03	9.9*	0.56	0.28	0.25
8SB	23	-2.09	0.06	-8.8	0.93	0.36	0.14
8SB	24	-0.26	0.03	-5.2	0.72	0.44	0.16
8SB	26	1.29	0.03	7.9*	0.44	0.33	0.63
8SB	27	-0.53	0.04	-9.9	0.77	0.54	0.35
8SB	28	-0.64	0.04	-1.0	0.79	0.33	0.19
8SB	32	0.29	0.03	-4.0	0.63	0.44	0.44
8SB	33	-0.72	0.04	-5.6	0.79	0.44	0.20
8SB	34	-1.58	0.05	-1.6	0.89	0.29	0.11
8SB	35	0.15	0.03	-3.1	0.67	0.39	0.20
8SB	36	0.44	0.03	-6.7	0.58	0.47	0.31
8SB	37	-0.72	0.04	2.0	0.80	0.31	0.10
8SB	38	1.57	0.03	9.9*	0.37	0.26	0.66
8SB	40	-0.56	0.04	-9.9	0.78	0.47	0.21
8SB	41	1.04	0.03	7.7*	0.48	0.32	0.36
8SB	42	0.10	0.03	0.8	0.66	0.37	0.95
8SB	43	-1.05	0.04	-5.4	0.84	0.38	0.17
8SB	44	-0.67	0.04	-7.7	0.81	0.39	0.23
8SB	45	-0.34	0.04	-7.4	0.75	0.43	0.30
8SB	46	0.67	0.03	-6.1	0.52	0.45	0.26
8SB	47	0.72	0.03	9.9*	0.54	0.27	0.27
8SB	48	-0.10	0.03	-1.7	0.70	0.40	0.52
8SB	49	-0.51	0.04	-6.4	0.80	0.33	0.26
8SB	50	-0.68	0.04	-9.9	0.79	0.52	0.36
8SB	51	1.08	0.03	9.9*	0.47	0.24	0.31
8SB	52	-0.08	0.03	-2.1	0.69	0.37	0.31
8SB	53	0.92	0.03	7.7*	0.50	0.31	0.68
8SB	54	1.16	0.03	9.5*	0.45	0.30	0.24
8SB	55	-0.01	0.03	-5.2	0.68	0.45	0.43
8SB	56	0.19	0.03	-1.2	0.65	0.38	0.32
8SB	57	0.74	0.03	1.7	0.54	0.36	0.34
8SB	58	-0.42	0.04	-9.9	0.75	0.51	0.32
8SB	59	1.17	0.03	6.4*	0.45	0.33	0.47
8SB	60	0.24	0.03	-9.9	0.64	0.53	0.58

¹ Values with a “*” were flagged if outfit >+5.0.

Table 13–4. Grade 8—Constructed-Response Items

Form	Seq	Max Pts	Logit	SE	Fit ¹	p-value ²	PtBis	Omits
8SB	20	2	1.36	0.02	6.8*	0.42	0.41	3.55
8SB	29	2	1.93	0.03	-6.2	0.33	0.51	4.26
8SB	39	4	1.85	0.02	9.9*	0.32	0.49	4.42
8SB	61	2	2.12	0.02	-1.1	0.22	0.46	6.97

GRADE 10

Table 13–5. Grade 10—Multiple-Choice Items

Form	Seq	Logit	SE	Fit ¹	p-value	PtBis	Omits
10SB	1	-1.65	0.05	0.7	0.90	0.27	0.03
10SB	2	0.11	0.03	9.9*	0.66	0.23	0.24
10SB	3	-0.51	0.04	3.5	0.77	0.30	0.02
10SB	4	0.69	0.03	1.0	0.55	0.36	0.15
10SB	5	-0.96	0.04	0.3	0.83	0.32	0.10
10SB	6	-0.04	0.03	1.5	0.67	0.35	0.14
10SB	7	0.13	0.03	9.9*	0.66	0.18	0.19
10SB	8	-0.07	0.03	9.9*	0.70	0.21	0.05
10SB	9	-0.01	0.03	-2.0	0.68	0.40	0.08
10SB	11	0.78	0.03	9.9*	0.53	0.27	0.20
10SB	12	-1.44	0.05	-4.8	0.89	0.33	0.14
10SB	14	-2.50	0.07	-6.7	0.95	0.29	0.06
10SB	15	0.10	0.03	0.5	0.65	0.37	0.16
10SB	16	-0.34	0.03	-2.8	0.74	0.37	0.14
10SB	17	0.44	0.03	9.9*	0.60	0.29	0.26
10SB	18	-0.58	0.04	-4.3	0.78	0.39	0.45
10SB	20	0.68	0.03	8.2*	0.55	0.30	0.16
10SB	21	-1.00	0.04	-8.0	0.84	0.41	0.16
10SB	22	0.53	0.03	2.2	0.55	0.37	0.24
10SB	23	-0.28	0.03	-5.3	0.73	0.42	0.45
10SB	24	0.07	0.03	3.5	0.69	0.30	0.23
10SB	26	-0.38	0.04	0.6	0.75	0.35	0.28
10SB	27	-0.55	0.04	-9.9	0.80	0.45	0.24
10SB	28	0.39	0.03	7.7*	0.61	0.29	0.28
10SB	29	-1.64	0.05	-9.9	0.91	0.40	0.27
10SB	31	0.94	0.03	2.7	0.50	0.36	0.28
10SB	32	0.40	0.03	7.8*	0.58	0.31	0.50
10SB	34	-1.28	0.04	-8.4	0.87	0.42	0.40
10SB	35	-0.09	0.03	-9.9	0.72	0.51	0.38

¹ Values with a “*” were flagged if outfit >+5.0.

² p-value = Mean Score/Maximum Score

Table 13–5 (continued). Grade 10—Multiple-Choice Items

Form	Seq	Logit	SE	Fit ¹	p-value	PtBis	Omits
10SB	36	0.86	0.03	9.2*	0.51	0.28	0.24
10SB	37	0.84	0.03	1.7	0.52	0.38	0.31
10SB	38	1.56	0.03	9.9*	0.37	0.21	0.50
10SB	39	-0.27	0.03	-9.9	0.73	0.52	0.32
10SB	40	0.58	0.03	-0.8	0.55	0.39	0.45
10SB	41	0.77	0.03	-9.9	0.53	0.49	0.55
10SB	43	0.81	0.03	-6.5	0.52	0.44	0.45
10SB	45	0.31	0.03	-9.9	0.64	0.56	0.43
10SB	46	1.80	0.03	9.9*	0.33	0.19	0.42
10SB	47	-0.58	0.04	-5.4	0.75	0.46	0.59
10SB	48	1.30	0.03	8.5*	0.41	0.30	0.58
10SB	49	-0.10	0.03	-9.9	0.70	0.48	0.28
10SB	51	1.58	0.03	6.7*	0.37	0.31	0.29
10SB	52	0.03	0.03	4.4	0.68	0.35	0.29
10SB	53	-0.23	0.03	-9.9	0.72	0.50	0.32
10SB	54	0.35	0.03	0.6	0.61	0.35	0.36
10SB	55	-0.64	0.04	-7.7	0.80	0.43	0.54
10SB	56	-0.87	0.04	-8.0	0.81	0.44	0.32
10SB	57	0.54	0.03	9.9*	0.58	0.24	0.29
10SB	58	0.02	0.03	-1.0	0.68	0.39	0.26
10SB	59	0.87	0.03	9.9*	0.51	0.19	0.95
10SB	60	0.08	0.03	-9.9	0.67	0.50	0.51
10SB	61	0.37	0.03	-7.0	0.61	0.44	0.38

Table 13–6. Grade 10—Constructed-Response Items

Form	Seq	Max Pts	Logit	SE	Fit ¹	p-value ²	PtBis	Omits
10SB	10	2	2.78	0.03	-0.1	0.22	0.39	4.08
10SB	30	2	2.86	0.03	-7.2	0.13	0.43	6.82
10SB	42	4	3.00	0.02	-8.5	0.15	0.54	12.17
10SB	50	4	1.65	0.02	1.0	0.36	0.59	6.49

¹ Values with a “*” were flagged if outfit >+5.0.

² p-value = Mean Score/Maximum Score