

APPENDIX 24: OPERATIONAL TEST RELIABILITY BY SUBPOPULATIONS

MATHEMATICS

Table 24–1. Mathematics Reliability by Ethnicity

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	White	59	5223	45.59	11.78	0.72	0.92	3.23
	African American	59	424	37.86	13.04	0.60	0.93	3.50
	Hispanic	59	375	40.53	12.13	0.64	0.92	3.46
	Asian/Pacific Islander	59	614	43.10	12.73	0.68	0.93	3.30
	Alaska Native or American Indian	59	2380	35.88	12.94	0.57	0.93	3.48
	Multi-Ethnic	59	377	41.45	13.11	0.66	0.93	3.37
4	White	59	5094	45.62	11.49	0.72	0.92	3.31
	African American	59	381	38.36	12.09	0.61	0.91	3.58
	Hispanic	59	406	41.12	11.90	0.65	0.91	3.48
	Asian/Pacific Islander	59	612	43.14	12.00	0.68	0.92	3.39
	Alaska Native or American Indian	59	2394	36.77	12.35	0.59	0.92	3.58
	Multi-Ethnic	59	348	43.89	11.90	0.70	0.92	3.39
5	White	59	5352	44.75	12.24	0.70	0.93	3.26
	African American	59	447	37.15	12.69	0.59	0.92	3.53
	Hispanic	59	409	39.19	12.71	0.62	0.92	3.49
	Asian/Pacific Islander	59	639	42.34	13.05	0.67	0.93	3.35
	Alaska Native or American Indian	59	2280	35.95	13.25	0.56	0.93	3.55
	Multi-Ethnic	59	297	40.88	13.35	0.64	0.94	3.40
6	White	59	5522	42.86	12.60	0.69	0.93	3.36
	African American	59	405	35.95	13.00	0.58	0.93	3.52
	Hispanic	59	402	38.59	13.33	0.62	0.93	3.45
	Asian/Pacific Islander	59	668	41.39	13.15	0.66	0.93	3.37
	Alaska Native or American Indian	59	2439	32.97	12.68	0.53	0.92	3.53
	Multi-Ethnic	59	279	38.91	13.54	0.62	0.93	3.46
7	White	59	5590	40.07	12.62	0.65	0.93	3.38
	African American	59	434	33.10	12.57	0.54	0.92	3.52
	Hispanic	59	432	34.66	12.73	0.56	0.92	3.49
	Asian/Pacific Islander	59	691	38.51	13.46	0.62	0.94	3.39
	Alaska Native or American Indian	59	2506	30.96	12.45	0.50	0.92	3.53
	Multi-Ethnic	59	243	35.30	13.09	0.57	0.93	3.46
8	White	59	5823	42.21	12.52	0.68	0.93	3.42
	African American	59	450	33.54	12.28	0.55	0.92	3.54
	Hispanic	59	393	35.77	13.09	0.58	0.93	3.49
	Asian/Pacific Islander	59	684	40.03	13.07	0.65	0.93	3.46
	Alaska Native or American Indian	59	2629	32.80	12.68	0.54	0.92	3.52
	Multi-Ethnic	59	217	37.12	13.30	0.60	0.93	3.56

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–1 (continued). Mathematics Reliability by Ethnicity

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
9	White	59	5950	40.41	13.17	0.65	0.93	3.45
	African American	59	445	31.57	12.99	0.51	0.92	3.63
	Hispanic	59	359	32.77	12.93	0.53	0.92	3.62
	Asian/Pacific Islander	59	656	39.14	12.98	0.63	0.93	3.51
	Alaska Native or American Indian	59	2661	32.27	12.44	0.52	0.91	3.63
	Multi-Ethnic	59	212	34.79	13.04	0.56	0.92	3.62
10	White	36	5705	26.12	7.60	0.68	0.87	2.75
	African American	36	412	19.69	7.34	0.52	0.86	2.78
	Hispanic	36	362	22.38	7.59	0.59	0.86	2.80
	Asian/Pacific Islander	36	685	24.05	8.13	0.62	0.88	2.83
	Alaska Native or American Indian	36	2229	20.25	7.60	0.53	0.87	2.79
	Multi-Ethnic	36	179	23.36	8.05	0.61	0.88	2.83

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–2. Mathematics Reliability by Socioeconomic Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Not Low Income	59	5314	45.47	11.85	0.72	0.93	3.24
	Low Income	59	4089	38.07	13.17	0.61	0.93	3.45
4	Not Low Income	59	5367	45.57	11.48	0.72	0.92	3.31
	Low Income	59	3874	38.49	12.50	0.61	0.92	3.55
5	Not Low Income	59	5533	44.88	12.16	0.71	0.93	3.26
	Low Income	59	3896	37.26	13.29	0.59	0.93	3.52
6	Not Low Income	59	5806	42.93	12.61	0.69	0.93	3.36
	Low Income	59	3913	34.89	13.14	0.56	0.93	3.52
7	Not Low Income	59	6020	40.19	12.73	0.65	0.93	3.37
	Low Income	59	3880	32.04	12.51	0.52	0.92	3.53
8	Not Low Income	59	6493	41.83	12.69	0.68	0.93	3.43
	Low Income	59	3709	33.76	12.80	0.55	0.92	3.53
9	Not Low Income	59	6995	39.92	13.17	0.64	0.93	3.47
	Low Income	59	3295	32.23	12.69	0.52	0.92	3.63
10	Not Low Income	36	6749	25.59	7.82	0.66	0.87	2.77
	Low Income	36	2826	20.66	7.59	0.54	0.86	2.79

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–3. Mathematics Reliability by English Proficiency Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	English Proficient	59	7898	43.60	12.51	0.69	0.93	3.30
	Limited English Proficient	59	1505	35.21	13.03	0.56	0.93	3.50
4	English Proficient	59	7672	43.98	12.00	0.70	0.92	3.38
	Limited English Proficient	59	1569	35.85	12.22	0.57	0.91	3.59
5	English Proficient	59	7911	43.19	12.71	0.68	0.93	3.33
	Limited English Proficient	59	1518	34.14	13.01	0.54	0.92	3.58
6	English Proficient	59	8095	41.17	13.04	0.66	0.93	3.41
	Limited English Proficient	59	1624	32.31	12.83	0.52	0.92	3.52
7	English Proficient	59	8251	38.41	13.00	0.62	0.93	3.41
	Limited English Proficient	59	1649	29.92	12.21	0.48	0.92	3.54
8	English Proficient	59	8640	40.38	12.94	0.65	0.93	3.45
	Limited English Proficient	59	1562	30.71	12.28	0.50	0.92	3.54
9	English Proficient	59	8777	38.64	13.41	0.62	0.93	3.49
	Limited English Proficient	59	1513	30.59	11.91	0.49	0.90	3.68
10	English Proficient	36	8410	24.88	7.90	0.65	0.88	2.77
	Limited English Proficient	36	1165	18.79	7.25	0.50	0.85	2.82

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–4. Mathematics Reliability by Migrant Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Non-Migrant	59	8840	42.64	12.84	0.68	0.93	3.33
	Migrant	59	563	36.23	13.42	0.58	0.93	3.46
4	Non-Migrant	59	8658	42.93	12.31	0.68	0.92	3.42
	Migrant	59	583	37.70	12.93	0.60	0.92	3.54
5	Non-Migrant	59	8892	42.13	13.07	0.66	0.93	3.36
	Migrant	59	537	35.09	13.34	0.55	0.93	3.58
6	Non-Migrant	59	9104	40.09	13.35	0.64	0.93	3.43
	Migrant	59	615	33.80	12.99	0.55	0.93	3.52
7	Non-Migrant	59	9221	37.42	13.20	0.60	0.93	3.43
	Migrant	59	679	31.29	12.60	0.51	0.92	3.52
8	Non-Migrant	59	9487	39.21	13.28	0.64	0.93	3.47
	Migrant	59	715	34.72	13.02	0.57	0.93	3.54
9	Non-Migrant	59	9624	37.76	13.50	0.61	0.93	3.52
	Migrant	59	666	33.06	12.71	0.53	0.92	3.62
10	Non-Migrant	36	8982	24.32	8.05	0.63	0.88	2.79
	Migrant	36	593	21.27	7.88	0.56	0.87	2.79

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–5. Mathematics Reliability by Special Education Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Regular Education	59	8023	43.73	12.30	0.69	0.93	3.31
	Individualized Education Plan	59	1380	33.69	13.41	0.54	0.93	3.51
4	Regular Education	59	7859	44.17	11.64	0.70	0.92	3.38
	Individualized Education Plan	59	1382	33.68	12.92	0.54	0.92	3.63
5	Regular Education	59	8131	43.41	12.49	0.68	0.93	3.32
	Individualized Education Plan	59	1298	31.19	12.56	0.49	0.92	3.65
6	Regular Education	59	8436	41.66	12.51	0.67	0.93	3.40
	Individualized Education Plan	59	1283	26.75	11.91	0.43	0.91	3.57
7	Regular Education	59	8662	38.82	12.50	0.63	0.93	3.42
	Individualized Education Plan	59	1238	24.24	11.17	0.40	0.90	3.52
8	Regular Education	59	9051	40.66	12.53	0.66	0.92	3.46
	Individualized Education Plan	59	1151	25.00	10.86	0.41	0.90	3.51
9	Regular Education	59	9178	39.09	12.87	0.63	0.93	3.50
	Individualized Education Plan	59	1112	23.92	10.70	0.39	0.89	3.59
10	Regular Education	36	8614	25.09	7.67	0.65	0.87	2.77
	Individualized Education Plan	36	961	15.55	6.24	0.42	0.81	2.71

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–6. Mathematics Reliability by Gender

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Female	59	4536	42.42	12.71	0.67	0.93	3.35
	Male	59	4863	42.09	13.20	0.67	0.94	3.33
4	Female	59	4502	42.47	12.31	0.68	0.92	3.43
	Male	59	4734	42.72	12.52	0.68	0.93	3.42
5	Female	59	4651	42.41	12.72	0.67	0.93	3.36
	Male	59	4775	41.07	13.59	0.65	0.94	3.39
6	Female	59	4788	39.95	13.04	0.64	0.93	3.42
	Male	59	4930	39.45	13.77	0.63	0.94	3.44
7	Female	59	4762	37.30	12.92	0.60	0.93	3.43
	Male	59	5138	36.71	13.55	0.59	0.94	3.44
8	Female	59	5041	38.92	12.98	0.63	0.93	3.50
	Male	59	5160	38.87	13.62	0.63	0.94	3.44
9	Female	59	4953	37.83	13.01	0.61	0.93	3.54
	Male	59	5335	37.10	13.94	0.60	0.94	3.50
10	Female	36	4647	24.04	7.87	0.62	0.87	2.81
	Male	36	4925	24.23	8.25	0.63	0.89	2.76

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

READING

Table 24–7. Reading Reliability by Ethnicity

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	White	55	5219	42.54	12.29	0.72	0.93	3.17
	African American	55	424	35.69	13.14	0.61	0.93	3.43
	Hispanic	55	369	35.78	12.81	0.61	0.93	3.42
	Asian/Pacific Islander	55	604	39.11	12.79	0.66	0.93	3.32
	Alaska Native or American Indian	55	2380	30.82	12.93	0.52	0.93	3.52
	Multi-Ethnic	55	377	37.40	13.38	0.63	0.94	3.36
4	White	55	5096	41.96	10.84	0.72	0.92	3.14
	African American	55	381	35.61	11.82	0.61	0.92	3.36
	Hispanic	55	400	36.77	11.40	0.63	0.92	3.32
	Asian/Pacific Islander	55	605	36.98	12.16	0.63	0.93	3.29
	Alaska Native or American Indian	55	2398	30.90	11.94	0.53	0.92	3.41
	Multi-Ethnic	55	348	39.01	11.79	0.67	0.92	3.25
5	White	55	5351	41.00	11.71	0.70	0.93	3.18
	African American	55	447	34.66	12.35	0.59	0.93	3.36
	Hispanic	55	402	35.47	12.35	0.61	0.93	3.37
	Asian/Pacific Islander	55	630	35.71	12.63	0.61	0.93	3.34
	Alaska Native or American Indian	55	2287	29.42	12.78	0.51	0.93	3.42
	Multi-Ethnic	55	296	36.78	12.54	0.63	0.93	3.34
6	White	55	5517	42.06	11.14	0.72	0.92	3.17
	African American	55	405	35.84	11.48	0.61	0.91	3.38
	Hispanic	55	397	36.41	11.58	0.62	0.92	3.36
	Asian/Pacific Islander	55	663	37.25	11.67	0.63	0.92	3.35
	Alaska Native or American Indian	55	2437	30.42	12.03	0.52	0.92	3.43
	Multi-Ethnic	55	279	36.89	11.70	0.63	0.92	3.36
7	White	55	5592	40.29	10.81	0.69	0.91	3.29
	African American	55	433	33.14	11.15	0.57	0.90	3.52
	Hispanic	55	421	34.53	11.20	0.59	0.90	3.47
	Asian/Pacific Islander	55	687	35.46	11.32	0.60	0.91	3.45
	Alaska Native or American Indian	55	2507	29.77	11.37	0.51	0.91	3.50
	Multi-Ethnic	55	243	35.42	11.04	0.61	0.90	3.47
8	White	55	5830	41.95	10.34	0.72	0.91	3.10
	African American	55	452	34.11	10.99	0.58	0.91	3.36
	Hispanic	55	389	35.81	11.18	0.61	0.91	3.31
	Asian/Pacific Islander	55	678	37.21	10.87	0.63	0.91	3.30
	Alaska Native or American Indian	55	2628	32.09	11.07	0.55	0.91	3.38
	Multi-Ethnic	55	215	37.72	11.38	0.64	0.92	3.25

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24– 7(continued). Reading Reliability by Ethnicity

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
9	White	55	6009	41.29	11.35	0.70	0.92	3.25
	African American	55	449	33.27	12.26	0.57	0.92	3.49
	Hispanic	55	360	33.47	11.98	0.57	0.92	3.46
	Asian/Pacific Islander	55	645	35.80	12.18	0.60	0.92	3.46
	Alaska Native or American Indian	55	2698	31.26	11.80	0.53	0.91	3.53
	Multi-Ethnic	55	213	36.48	12.73	0.62	0.93	3.42
10	White	67	5714	57.68	9.61	0.81	0.89	3.16
	African American	67	409	48.40	12.91	0.68	0.92	3.61
	Hispanic	67	363	51.18	12.54	0.72	0.92	3.50
	Asian/Pacific Islander	67	691	50.10	12.65	0.70	0.92	3.51
	Alaska Native or American Indian	67	2240	47.09	12.88	0.66	0.92	3.66
	Multi-Ethnic	67	175	53.39	11.60	0.75	0.91	3.42

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–8. Reading Reliability by Socioeconomic Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Not Low Income	55	5313	42.47	12.28	0.72	0.93	3.17
	Low Income	55	4070	33.47	13.40	0.57	0.93	3.48
4	Not Low Income	55	5366	41.64	11.16	0.71	0.92	3.15
	Low Income	55	3868	33.34	12.09	0.57	0.92	3.38
5	Not Low Income	55	5526	40.81	11.69	0.70	0.93	3.19
	Low Income	55	3892	31.97	13.13	0.55	0.93	3.39
6	Not Low Income	55	5793	41.77	11.22	0.71	0.92	3.18
	Low Income	55	3909	32.81	12.30	0.56	0.92	3.41
7	Not Low Income	55	6009	39.85	10.90	0.68	0.91	3.31
	Low Income	55	3878	31.58	11.66	0.54	0.91	3.49
8	Not Low Income	55	6486	41.36	10.58	0.71	0.91	3.12
	Low Income	55	3712	33.28	11.22	0.57	0.91	3.37
9	Not Low Income	55	7056	40.31	11.68	0.68	0.92	3.30
	Low Income	55	3323	31.89	12.08	0.54	0.92	3.51
10	Not Low Income	67	6762	56.32	10.49	0.79	0.90	3.24
	Low Income	67	2832	48.25	13.21	0.68	0.93	3.61

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–9. Reading Reliability by English Proficiency Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	English Proficient	55	7902	40.13	13.11	0.68	0.94	3.26
	Limited English Proficient	55	1481	30.23	12.71	0.51	0.92	3.56
4	English Proficient	55	7679	40.00	11.65	0.68	0.92	3.21
	Limited English Proficient	55	1555	29.10	11.15	0.50	0.90	3.44
5	English Proficient	55	7913	39.09	12.33	0.67	0.93	3.24
	Limited English Proficient	55	1505	26.98	12.01	0.46	0.92	3.44
6	English Proficient	55	8092	40.08	11.74	0.68	0.92	3.24
	Limited English Proficient	55	1610	28.49	11.44	0.49	0.91	3.46
7	English Proficient	55	8250	38.38	11.40	0.66	0.91	3.35
	Limited English Proficient	55	1637	27.68	10.29	0.48	0.88	3.54
8	English Proficient	55	8648	40.04	10.95	0.68	0.92	3.17
	Limited English Proficient	55	1550	29.36	10.18	0.50	0.89	3.45
9	English Proficient	55	8871	39.30	11.99	0.67	0.92	3.33
	Limited English Proficient	55	1508	27.69	10.21	0.47	0.88	3.58
10	English Proficient	67	8429	55.52	10.99	0.78	0.91	3.28
	Limited English Proficient	67	1165	42.55	12.36	0.59	0.91	3.79

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–10. Reading Reliability by Migrant Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Non-Migrant	55	8826	39.05	13.42	0.66	0.94	3.31
	Migrant	55	557	30.95	13.11	0.53	0.93	3.52
4	Non-Migrant	55	8650	38.63	12.13	0.66	0.93	3.25
	Migrant	55	584	31.29	12.22	0.54	0.92	3.38
5	Non-Migrant	55	8877	37.71	12.86	0.64	0.94	3.28
	Migrant	55	541	28.03	12.87	0.48	0.93	3.42
6	Non-Migrant	55	9086	38.66	12.33	0.66	0.93	3.27
	Migrant	55	616	30.84	12.08	0.53	0.92	3.44
7	Non-Migrant	55	9209	37.14	11.75	0.64	0.92	3.38
	Migrant	55	678	29.35	11.62	0.51	0.91	3.49
8	Non-Migrant	55	9482	38.81	11.41	0.66	0.92	3.21
	Migrant	55	716	33.21	11.35	0.57	0.91	3.36
9	Non-Migrant	55	9707	38.02	12.36	0.65	0.93	3.36
	Migrant	55	672	31.75	12.14	0.54	0.92	3.50
10	Non-Migrant	67	9001	54.30	11.76	0.76	0.92	3.33
	Migrant	67	593	48.48	13.30	0.68	0.93	3.60

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–11. Reading Reliability by Special Education Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Regular Education	55	8008	40.58	12.51	0.68	0.93	3.27
	Individualized Education Plan	55	1375	26.83	13.31	0.46	0.93	3.53
4	Regular Education	55	7850	39.97	11.39	0.68	0.92	3.22
	Individualized Education Plan	55	1384	27.92	12.04	0.48	0.92	3.41
5	Regular Education	55	8117	39.11	12.15	0.67	0.93	3.25
	Individualized Education Plan	55	1301	24.98	11.89	0.43	0.92	3.40
6	Regular Education	55	8424	40.07	11.46	0.68	0.92	3.25
	Individualized Education Plan	55	1278	25.57	11.48	0.44	0.91	3.42
7	Regular Education	55	8661	38.25	11.10	0.65	0.91	3.37
	Individualized Education Plan	55	1226	25.00	10.95	0.43	0.90	3.47
8	Regular Education	55	9048	40.00	10.64	0.68	0.91	3.18
	Individualized Education Plan	55	1150	25.91	10.20	0.45	0.89	3.42
9	Regular Education	55	9266	39.16	11.71	0.66	0.92	3.34
	Individualized Education Plan	55	1113	24.77	10.83	0.43	0.90	3.48
10	Regular Education	67	8643	55.51	10.62	0.78	0.90	3.29
	Individualized Education Plan	67	951	39.72	13.75	0.56	0.92	3.85

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–12. Reading Reliability by Gender

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Female	55	4533	40.19	13.00	0.68	0.94	3.28
	Male	55	4846	37.05	13.84	0.63	0.94	3.35
4	Female	55	4500	39.33	11.99	0.67	0.93	3.24
	Male	55	4729	37.04	12.42	0.63	0.93	3.27
5	Female	55	4649	38.82	12.60	0.66	0.93	3.25
	Male	55	4766	35.54	13.28	0.61	0.94	3.31
6	Female	55	4782	39.32	12.00	0.67	0.93	3.25
	Male	55	4919	37.04	12.80	0.64	0.93	3.30
7	Female	55	4774	37.22	11.67	0.63	0.92	3.39
	Male	55	5113	36.04	12.10	0.62	0.92	3.38
8	Female	55	5038	39.87	10.89	0.68	0.92	3.17
	Male	55	5159	37.00	11.88	0.63	0.92	3.26
9	Female	55	4986	39.40	11.73	0.66	0.92	3.33
	Male	55	5392	35.97	12.85	0.61	0.93	3.38
10	Female	67	4675	54.84	11.11	0.77	0.91	3.30
	Male	67	4917	53.08	12.63	0.74	0.93	3.39

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

WRITING

Table 24–13. Writing Reliability by Ethnicity

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	White	52	5216	41.46	12.02	0.70	0.93	3.17
	African American	52	424	34.75	13.01	0.59	0.93	3.41
	Hispanic	52	367	35.22	12.71	0.59	0.93	3.39
	Asian/Pacific Islander	52	604	38.67	12.89	0.65	0.94	3.27
	Alaska Native or American Indian	52	2386	29.65	12.99	0.50	0.93	3.48
	Multi-Ethnic	52	377	36.69	13.50	0.62	0.94	3.30
4	White	51	5090	39.98	10.07	0.69	0.90	3.23
	African American	51	379	34.61	10.67	0.59	0.90	3.39
	Hispanic	51	401	35.76	10.21	0.61	0.89	3.34
	Asian/Pacific Islander	51	605	37.41	10.57	0.64	0.90	3.28
	Alaska Native or American Indian	51	2402	30.72	10.85	0.52	0.90	3.45
	Multi-Ethnic	51	348	38.36	10.12	0.66	0.89	3.30
5	White	51	5346	42.45	10.29	0.73	0.90	3.18
	African American	51	447	37.04	11.20	0.63	0.91	3.41
	Hispanic	51	403	38.27	10.70	0.65	0.90	3.34
	Asian/Pacific Islander	51	630	39.75	11.27	0.68	0.92	3.27
	Alaska Native or American Indian	51	2288	33.35	11.68	0.57	0.91	3.48
	Multi-Ethnic	51	295	39.28	11.09	0.67	0.91	3.30
6	White	51	5523	41.56	10.34	0.71	0.90	3.19
	African American	51	404	37.11	10.48	0.63	0.89	3.42
	Hispanic	51	397	38.12	10.67	0.65	0.90	3.38
	Asian/Pacific Islander	51	661	38.89	11.05	0.66	0.91	3.32
	Alaska Native or American Indian	51	2441	31.52	11.06	0.54	0.90	3.53
	Multi-Ethnic	51	280	37.99	10.97	0.65	0.90	3.40
7	White	51	5594	41.60	10.40	0.71	0.91	3.14
	African American	51	435	36.49	11.04	0.62	0.91	3.34
	Hispanic	51	425	36.74	10.77	0.63	0.91	3.28
	Asian/Pacific Islander	51	687	38.02	11.00	0.65	0.91	3.25
	Alaska Native or American Indian	51	2519	31.67	11.06	0.54	0.90	3.41
	Multi-Ethnic	51	245	37.04	10.80	0.63	0.91	3.30
8	White	51	5829	41.57	10.08	0.71	0.90	3.12
	African American	51	449	35.24	11.13	0.60	0.91	3.36
	Hispanic	51	390	36.43	10.86	0.62	0.91	3.29
	Asian/Pacific Islander	51	678	38.44	10.86	0.66	0.91	3.21
	Alaska Native or American Indian	51	2631	32.37	10.98	0.55	0.90	3.40
	Multi-Ethnic	51	216	38.18	10.83	0.65	0.91	3.26

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–13 (continued). Writing Reliability by Ethnicity

Grade	Subpopulation Group	Mean						
		L	N	Mean	SD	p-value	Reliability	SEM
9	White	51	5990	41.79	10.63	0.72	0.91	3.21
	African American	51	447	35.27	11.50	0.61	0.91	3.45
	Hispanic	51	353	35.78	10.99	0.62	0.90	3.40
	Asian/Pacific Islander	51	651	37.75	10.52	0.64	0.90	3.35
	Alaska Native or American Indian	51	2683	33.43	10.71	0.57	0.90	3.46
	Multi-Ethnic	51	212	37.36	11.19	0.64	0.91	3.35
10	White	34	5704	37.06	6.93	0.77	0.84	2.76
	African American	34	414	32.03	7.89	0.67	0.85	3.01
	Hispanic	34	364	33.56	8.29	0.69	0.88	2.88
	Asian/Pacific Islander	34	683	33.98	7.96	0.70	0.87	2.85
	Alaska Native or American Indian	34	2237	30.88	8.23	0.63	0.86	3.06
	Multi-Ethnic	34	174	34.83	8.18	0.72	0.87	2.96

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–14. Writing Reliability by Socioeconomic Status

Grade	Subpopulation Group	Mean						
		L	N	Mean	SD	p-value	Reliability	SEM
3	Not Low Income	52	5301	41.14	12.21	0.70	0.93	3.18
	Low Income	52	4083	32.86	13.50	0.55	0.94	3.42
4	Not Low Income	51	5365	39.89	10.23	0.69	0.90	3.23
	Low Income	51	3866	32.85	10.89	0.56	0.90	3.41
5	Not Low Income	51	5523	42.48	10.30	0.73	0.91	3.17
	Low Income	51	3891	35.32	11.68	0.60	0.91	3.44
6	Not Low Income	51	5797	41.57	10.27	0.71	0.90	3.20
	Low Income	51	3912	33.76	11.42	0.58	0.91	3.47
7	Not Low Income	51	6029	41.33	10.49	0.71	0.91	3.14
	Low Income	51	3879	33.54	11.29	0.57	0.91	3.39
8	Not Low Income	51	6487	41.19	10.30	0.71	0.91	3.13
	Low Income	51	3712	33.62	11.05	0.58	0.91	3.39
9	Not Low Income	51	7030	41.14	10.66	0.71	0.91	3.24
	Low Income	51	3311	33.77	11.05	0.58	0.90	3.46
10	Not Low Income	34	6763	36.48	7.19	0.76	0.85	2.79
	Low Income	34	2816	31.45	8.41	0.65	0.87	3.03

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–15. Writing Reliability by English Proficiency Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	English Proficient	52	7897	39.00	13.00	0.66	0.94	3.25
	Limited English Proficient	52	1487	29.80	13.05	0.50	0.93	3.46
4	English Proficient	51	7672	38.30	10.65	0.66	0.91	3.28
	Limited English Proficient	51	1559	30.25	10.67	0.51	0.90	3.45
5	English Proficient	51	7910	40.92	10.92	0.70	0.91	3.24
	Limited English Proficient	51	1504	32.15	11.36	0.55	0.90	3.50
6	English Proficient	51	8094	39.94	10.91	0.68	0.91	3.26
	Limited English Proficient	51	1615	30.81	10.81	0.52	0.89	3.55
7	English Proficient	51	8268	39.87	11.03	0.68	0.92	3.21
	Limited English Proficient	51	1640	30.27	10.18	0.51	0.89	3.42
8	English Proficient	51	8647	39.90	10.66	0.68	0.91	3.19
	Limited English Proficient	51	1552	30.31	10.56	0.52	0.89	3.43
9	English Proficient	51	8836	40.12	11.04	0.69	0.91	3.27
	Limited English Proficient	51	1505	30.96	9.70	0.53	0.87	3.50
10	English Proficient	34	8411	35.86	7.53	0.74	0.86	2.84
	Limited English Proficient	34	1168	28.85	7.87	0.59	0.85	3.03

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–16. Writing Reliability by Migrant Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Non-Migrant	52	8821	38.00	13.31	0.64	0.94	3.28
	Migrant	52	563	30.29	13.31	0.51	0.93	3.48
4	Non-Migrant	51	8646	37.33	10.95	0.64	0.91	3.30
	Migrant	51	585	31.11	11.26	0.53	0.91	3.41
5	Non-Migrant	51	8875	39.96	11.26	0.68	0.92	3.27
	Migrant	51	539	32.33	12.10	0.55	0.92	3.50
6	Non-Migrant	51	9092	38.84	11.30	0.67	0.91	3.30
	Migrant	51	617	32.22	11.26	0.55	0.90	3.51
7	Non-Migrant	51	9230	38.81	11.31	0.66	0.92	3.23
	Migrant	51	678	31.06	11.02	0.53	0.90	3.41
8	Non-Migrant	51	9481	38.81	11.10	0.66	0.92	3.22
	Migrant	51	718	33.51	11.12	0.57	0.91	3.40
9	Non-Migrant	51	9668	39.12	11.28	0.67	0.91	3.30
	Migrant	51	673	33.90	10.78	0.58	0.90	3.44
10	Non-Migrant	34	8989	35.22	7.82	0.73	0.87	2.87
	Migrant	34	590	31.75	8.59	0.65	0.88	3.03

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–17. Writing Reliability by Special Education Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Regular Education	52	7999	39.15	12.91	0.66	0.94	3.25
	Individualized Education Plan	52	1385	28.21	12.55	0.48	0.92	3.48
4	Regular Education	51	7846	38.38	10.53	0.66	0.90	3.27
	Individualized Education Plan	51	1385	28.77	10.52	0.49	0.89	3.48
5	Regular Education	51	8113	41.12	10.63	0.70	0.91	3.23
	Individualized Education Plan	51	1301	29.53	11.31	0.50	0.90	3.55
6	Regular Education	51	8429	40.18	10.48	0.69	0.90	3.27
	Individualized Education Plan	51	1280	26.85	10.50	0.46	0.88	3.57
7	Regular Education	51	8670	40.05	10.48	0.68	0.91	3.20
	Individualized Education Plan	51	1238	25.88	10.29	0.44	0.89	3.47
8	Regular Education	51	9044	40.07	10.25	0.69	0.90	3.18
	Individualized Education Plan	51	1155	25.61	9.87	0.44	0.88	3.48
9	Regular Education	51	9225	40.36	10.43	0.69	0.90	3.27
	Individualized Education Plan	51	1116	25.73	9.91	0.45	0.87	3.53
10	Regular Education	34	8629	36.10	7.08	0.75	0.84	2.81
	Individualized Education Plan	34	950	24.99	7.98	0.52	0.84	3.18

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores

Table 24–18. Writing Reliability by Gender

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
3	Female	52	4530	39.57	13.10	0.67	0.94	3.22
	Male	52	4850	35.64	13.46	0.60	0.94	3.35
4	Female	51	4499	38.90	10.63	0.66	0.91	3.24
	Male	51	4727	35.07	11.16	0.60	0.91	3.35
5	Female	51	4648	41.63	10.76	0.71	0.91	3.20
	Male	51	4763	37.47	11.72	0.64	0.92	3.35
6	Female	51	4787	40.38	10.80	0.69	0.91	3.24
	Male	51	4921	36.52	11.66	0.63	0.92	3.37
7	Female	51	4771	40.77	10.68	0.69	0.91	3.13
	Male	51	5137	35.97	11.68	0.62	0.92	3.33
8	Female	51	5035	40.86	10.27	0.70	0.91	3.13
	Male	51	5163	36.08	11.54	0.62	0.92	3.31
9	Female	51	4978	41.37	10.28	0.71	0.90	3.20
	Male	51	5362	36.38	11.72	0.63	0.92	3.38
10	Female	34	4669	36.79	7.14	0.75	0.86	2.70
	Male	34	4907	33.31	8.21	0.70	0.87	2.98

L=Number of items, N=Number of persons, Mean=Average person raw score
SD=Standard deviation of person raw scores