

APPENDIX 20: OPERATIONAL TEST RELIABILITY BY SUBPOPULATIONS

Table 20–1. Reliability by Ethnicity

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
4	White (Caucasian)	48	4623	35.75	9.07	0.71	0.91	2.71
	African American	48	326	28.61	9.22	0.57	0.89	3.06
	Hispanic	48	559	31.55	9.58	0.63	0.91	2.94
	Asian/Pac. Islander/Native Hawaiian	48	632	29.30	9.74	0.59	0.90	3.00
	Alaska Native and American Indian	48	2134	25.48	9.71	0.51	0.90	3.06
	Two or more races	48	624	31.98	9.46	0.64	0.90	2.92
8	White (Caucasian)	56	5138	41.49	10.77	0.67	0.91	3.20
	African American	56	318	32.34	11.11	0.52	0.90	3.47
	Hispanic	56	493	35.68	11.24	0.58	0.91	3.42
	Asian/Pac. Islander/Native Hawaiian	56	683	34.35	11.86	0.55	0.92	3.43
	Alaska Native and American Indian	56	2075	30.61	11.41	0.49	0.91	3.48
	Two or more races	56	517	36.39	12.09	0.59	0.92	3.37
10	White (Caucasian)	56	5039	40.19	10.92	0.63	0.91	3.30
	African American	56	299	30.45	11.22	0.48	0.91	3.42
	Hispanic	56	451	33.27	11.67	0.52	0.91	3.47
	Asian/Pac. Islander/Native Hawaiian	56	640	34.28	11.35	0.54	0.91	3.46
	Alaska Native and American Indian	56	2000	31.05	10.82	0.49	0.90	3.47
	Two or more races	56	469	36.60	11.29	0.57	0.91	3.39

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

Table 20–2. Reliability by Socioeconomic Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
4	Not Low Income	48	4924	35.18	9.35	0.70	0.91	2.74
	Low Income	48	3994	28.15	10.06	0.56	0.91	3.01
8	Not Low Income	56	5765	40.78	10.92	0.66	0.91	3.23
	Low Income	56	3479	32.29	11.97	0.52	0.92	3.45
10	Not Low Income	56	6148	39.04	11.26	0.61	0.91	3.34
	Low Income	56	2802	31.90	11.24	0.50	0.91	3.46

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

Table 20–3. Reliability by English Proficiency Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
4	English Proficient	48	7757	33.75	9.53	0.67	0.91	2.82
	Limited English Proficient	48	1161	20.56	7.38	0.41	0.82	3.15
8	English Proficient	56	8117	39.37	11.32	0.64	0.92	3.28
	Limited English Proficient	56	1127	24.71	8.92	0.40	0.84	3.51
10	English Proficient	56	7935	38.22	11.28	0.60	0.91	3.36
	Limited English Proficient	56	1015	25.68	8.92	0.40	0.85	3.51

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

Table 20–4. Reliability by Migrant Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
4	Non-Migrant	48	8340	32.42	10.19	0.65	0.92	2.86
	Migrant	48	578	26.40	9.99	0.53	0.91	3.05
8	Non-Migrant	56	8653	37.97	11.97	0.61	0.92	3.31
	Migrant	56	591	31.87	11.68	0.51	0.91	3.45
10	Non-Migrant	56	8364	37.09	11.71	0.58	0.92	3.38
	Migrant	56	586	32.62	11.21	0.51	0.91	3.45

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

Table 20–5. Reliability by Special Education Status

Grade	Subpopulation Group	L	N	Mean	SD	Mean p-value	Reliability	SEM
4	Regular Education	48	7568	33.08	10.00	0.66	0.92	2.84
	Individualized Education Plan	48	1350	26.17	9.89	0.52	0.90	3.06
8	Regular Education	56	8177	39.12	11.34	0.63	0.92	3.29
	Individualized Education Plan	56	1067	25.80	10.72	0.42	0.89	3.49
10	Regular Education	56	8116	38.00	11.21	0.59	0.91	3.37
	Individualized Education Plan	56	834	25.16	10.26	0.39	0.89	3.45

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

Table 20–6. Reliability by Gender

Grade	Subpopulation Group	<i>L</i>	<i>N</i>	Mean	<i>SD</i>	Mean <i>p</i>-value	Reliability	<i>SEM</i>
4	Female	48	4377	31.88	10.09	0.64	0.92	2.89
	Male	48	4541	32.18	10.46	0.64	0.93	2.85
8	Female	56	4513	37.46	11.70	0.60	0.92	3.33
	Male	56	4731	37.70	12.37	0.61	0.93	3.30
10	Female	56	4454	36.52	10.99	0.57	0.90	3.42
	Male	56	4496	37.08	12.41	0.58	0.93	3.33

L=Number of items, *N*=Number of persons, Mean=Average person raw score

SD=Standard deviation of person raw scores, *SEM*=Standard error of measurement