

Appendix J—CLASSICAL RELIABILITIES

Table J-1. 2009 MEPA: Reliabilities (α), Standard Errors of Measurement, and Descriptive Statistics for Composite Scores—Spring 2009 Administration

<i>Grade span</i>	<i>Session</i>	<i>N</i>	<i>Points</i>	<i>Min</i>	<i>Max</i>	<i>Mean</i>	<i>SD</i>	α	<i>SEM</i>
K-2	A	10,533	54	0	54	31.06	10.17	0.90	3.22
	B	10,669	62	1	62	43.36	9.55	0.90	3.02
3-4	1:2	3,520	77	0	75	48.11	16.54	0.95	3.70
	2:3	7,364	79	6	79	56.96	9.53	0.89	3.16
5-6	1:2	2,049	77	0	76	43.42	17.23	0.95	3.85
	2:3	5,172	79	6	78	54.84	9.95	0.89	3.30
7-8	1:2	1,819	77	0	76	38.99	15.16	0.94	3.71
	2:3	4,021	79	5	76	52.18	10.53	0.89	3.49
9-12	1:2	3,325	77	0	77	39.98	15.44	0.94	3.78
	2:3	6,106	79	6	77	51.53	11.08	0.90	3.50

SD = standard deviation; SEM = standard error of measurement

Table J-2. 2009 MEPA: Reliabilities(α), Standard Errors of Measurement, and Descriptive Statistics for Composite Scores—Fall 2009 Administration

<i>Grade span</i>	<i>Session</i>	<i>N</i>	<i>Points</i>	<i>Min</i>	<i>Max</i>	<i>Mean</i>	<i>SD</i>	α	<i>SEM</i>
K-2	A	1,232	54	0	53	25.43	12.61	0.92	3.57
	B	372	62	1	62	39.25	12.42	0.93	3.29
3-4	1:2	901	77	0	75	29.05	19.32	0.96	3.86
	2:3	253	79	10	76	53.88	11.42	0.91	3.43
5-6	1:2	753	77	0	74	30.00	18.24	0.95	4.08
	2:3	227	79	6	74	52.94	11.20	0.90	3.54
7-8	1:2	743	77	0	74	27.94	16.36	0.95	3.66
	2:3	302	79	5	78	51.13	14.51	0.93	3.84
9-12	1:2	1,496	77	2	73	34.47	15.78	0.94	3.86
	2:3	654	79	8	78	52.16	11.75	0.90	3.72

SD = standard deviation; SEM = standard error of measurement

**Table J-3. 2009 MEPA: Subgroup Reliability by
Grade Span and Test Session—Spring 2009 Administration**

<i>Grade span</i>	<i>Subgroup</i>	<i>Session</i>	<i>N</i>	<i>α</i>	
K-2	All Students	A	10,533	0.90	
		B	10,669	0.90	
	Gender	Male	A	5,666	0.90
			B	5,447	0.90
		Female	A	4,792	0.90
			B	5,216	0.90
	Ethnicity	Asian	A	1,928	0.91
			B	2,402	0.90
		African American	A	947	0.91
			B	938	0.90
		Hispanic or Latino	A	5,889	0.90
			B	5,663	0.90
		Native American	A	26	0.90
			B	18	
		White	A	1,569	0.90
			B	1,500	0.90
	LEP	A	10,042	0.90	
		B	10,354	0.90	
	Low Income	A	7,775	0.90	
		B	8,106	0.90	
Special Education	A	1,209	0.90		
	B	947	0.90		
3-4	All Students	1:2	3,520	0.95	
		2:3	7,364	0.89	
	Gender	Male	1:2	1,962	0.95
			2:3	3,781	0.89
		Female	1:2	1,538	0.95
			2:3	3,576	0.88
	Ethnicity	Asian	1:2	595	0.95
			2:3	1,543	0.85
		African American	1:2	419	0.95
			2:3	797	0.90
		Hispanic or Latino	1:2	2,045	0.95
			2:3	4,012	0.89
		Native American	1:2	6	
			2:3	11	
	White	1:2	398	0.95	
		2:3	923	0.86	
	LEP	1:2	3,406	0.95	
		2:3	7,192	0.89	
	Low Income	1:2	2,838	0.95	
		2:3	5,929	0.89	
Special Education	1:2	817	0.92		
	2:3	1,018	0.88		

continued

<i>Grade span</i>	<i>Subgroup</i>	<i>Session</i>	<i>N</i>	<i>α</i>	
5–6	All Students	1:2	2,049	0.95	
		2:3	5,172	0.89	
	Gender	Male	1:2	1,100	0.95
			2:3	2,729	0.89
		Female	1:2	928	0.95
			2:3	2,428	0.88
	Ethnicity	Asian	1:2	254	0.95
			2:3	987	0.87
		African American	1:2	345	0.95
			2:3	656	0.89
		Hispanic or Latino	1:2	1,176	0.95
			2:3	2,883	0.88
		Native American	1:2	2	
			2:3	6	
	White	1:2	227	0.95	
		2:3	587	0.88	
	LEP	1:2	1,985	0.95	
		2:3	5,014	0.89	
Low Income	1:2	1,717	0.95		
	2:3	4,287	0.88		
Special Education	1:2	440	0.93		
	2:3	1,135	0.86		
7–8	All Students	1:2	1,819	0.94	
		2:3	4,021	0.89	
	Gender	Male	1:2	970	0.94
			2:3	2,173	0.90
		Female	1:2	829	0.93
			2:3	1,837	0.89
	Ethnicity	Asian	1:2	196	0.92
			2:3	701	0.87
		African American	1:2	314	0.94
			2:3	590	0.90
		Hispanic or Latino	1:2	1,076	0.93
			2:3	2,256	0.89
		Native American	1:2	15	
			2:3	8	
	White	1:2	172	0.95	
		2:3	418	0.88	
	LEP	1:2	1,760	0.93	
		2:3	3,908	0.89	
Low Income	1:2	1,545	0.93		
	2:3	3,346	0.89		
Special Education	1:2	278	0.93		
	2:3	907	0.87		

continued

<i>Grade span</i>	<i>Subgroup</i>	<i>Session</i>	<i>N</i>	<i>α</i>
9–12	All Students	1:2	3,325	0.94
		2:3	6,106	0.90
	Male	1:2	1,770	0.94
		2:3	3,177	0.90
	Female	1:2	1,490	0.94
		2:3	2,878	0.90
	Asian	1:2	470	0.92
		2:3	1,103	0.87
	African American	1:2	799	0.93
		2:3	1,208	0.89
	Hispanic or Latino	1:2	1,639	0.94
		2:3	3,052	0.90
	Native American	1:2	4	
		2:3	6	
	White	1:2	308	0.93
		2:3	632	0.88
	LEP	1:2	3,194	0.94
		2:3	5,889	0.90
	Low Income	1:2	2,639	0.94
		2:3	4,738	0.90
Special Education	1:2	296	0.94	
	2:3	683	0.89	

For subgroups of fewer than 20 students, sample size was too small to accurately calculate α coefficients.

**Table J-4. 2009 MEPA: Subgroup Reliability by
Grade Span and Test Session—Fall 2009 Administration**

<i>Grade span</i>	<i>Subgroup</i>	<i>Session</i>	<i>N</i>	<i>α</i>	
K-2	All Students	A	1,232	0.93	
		B	372	0.93	
	Gender	Male	A	618	0.92
			B	198	0.92
		Female	A	538	0.92
			B	166	0.93
	Ethnicity	Asian	A	260	0.92
			B	106	0.94
		African American	A	136	0.93
			B	39	0.90
		Hispanic or Latino	A	534	0.93
			B	155	0.93
		Native American	A	3	
			B	2	
		White	A	209	0.91
			B	56	0.92
	LEP	A	1,078	0.92	
		B	314	0.93	
	Low Income	A	735	0.93	
		B	236	0.92	
Special Education	A	83	0.91		
	B	20	0.90		
3-4	All Students	1:2	901	0.96	
		2:3	253	0.91	
	Gender	Male	1:2	436	0.96
			2:3	130	0.90
		Female	1:2	396	0.96
			2:3	117	0.92
	Ethnicity	Asian	1:2	165	0.96
			2:3	64	0.89
		African American	1:2	112	0.95
			2:3	28	0.93
		Hispanic or Latino	1:2	418	0.96
			2:3	112	0.91
	Native American	1:2	3		
		2:3	2		
	White	1:2	128	0.96	
		2:3	37	0.88	
	LEP	1:2	787	0.96	
		2:3	223	0.90	
	Low Income	1:2	567	0.96	
		2:3	146	0.92	
Special Education	1:2	70	0.95		
	2:3	30	0.91		

continued

<i>Grade span</i>	<i>Subgroup</i>	<i>Session</i>	<i>N</i>	<i>α</i>	
5–6	All Students	1:2	753	0.96	
		2:3	227	0.90	
	Gender	Male	1:2	341	0.96
			2:3	116	0.90
		Female	1:2	345	0.95
			2:3	106	0.90
	Ethnicity	Asian	1:2	102	0.95
			2:3	47	0.88
		African American	1:2	112	0.96
			2:3	34	0.92
		Hispanic or Latino	1:2	376	0.95
			2:3	97	0.91
		Native American	1:2	3	
			2:3	0	
	White	1:2	89	0.95	
		2:3	43	0.90	
LEP	1:2	644	0.95		
	2:3	211	0.90		
Low Income	1:2	482	0.95		
	2:3	155	0.90		
Special Education	1:2	46	0.95		
	2:3	20	0.88		
7–8	All Students	1:2	743	0.95	
		2:3	302	0.93	
	Gender	Male	1:2	357	0.94
			2:3	155	0.93
		Female	1:2	318	0.95
			2:3	129	0.93
	Ethnicity	Asian	1:2	106	0.94
			2:3	61	0.89
		African American	1:2	107	0.96
			2:3	41	0.89
		Hispanic or Latino	1:2	373	0.94
			2:3	133	0.94
		Native American	1:2	1	
			2:3	2	
	White	1:2	85	0.95	
		2:3	45	0.88	
LEP	1:2	647	0.95		
	2:3	249	0.93		
Low Income	1:2	504	0.94		
	2:3	199	0.93		
Special Education	1:2	29	0.95		
	2:3	46	0.93		

continued

<i>Grade span</i>	<i>Subgroup</i>	<i>Session</i>	<i>N</i>	<i>α</i>	
9–12	All Students	1:2	1,496	0.94	
		2:3	654	0.91	
	Gender	Male	1:2	765	0.94
			2:3	306	0.91
	Female	1:2	618	0.94	
		2:3	301	0.90	
	Asian	1:2	196	0.94	
		2:3	113	0.89	
	African American	1:2	326	0.93	
		2:3	117	0.89	
	Hispanic or Latino	1:2	757	0.94	
		2:3	288	0.91	
	Native American	1:2	1		
		2:3	1		
	White	1:2	96	0.95	
		2:3	85	0.89	
	LEP	1:2	1,332	0.94	
		2:3	554	0.90	
	Low Income	1:2	1,033	0.94	
		2:3	398	0.89	
Special Education	1:2	68	0.93		
	2:3	47	0.90		

For subgroups of fewer than 20 students, sample size was too small to accurately calculate α coefficients.

Table J-5. 2009 MEPA: Subgroup Reliability for Reading, Writing, and MELA-O—Spring 2009 Administration

Grade span	Subgroup	Session	N	Reporting Subcategory			
				Reading	Writing	MELA-O	
K-2	All Students	A	10,533	0.80	0.83	0.97	
		B	10,669	0.79	0.85	0.96	
	Gender	Male	A	5,666	0.80	0.84	0.97
			B	5,447	0.79	0.85	0.96
		Female	A	4,792	0.80	0.83	0.97
			B	5,216	0.79	0.85	0.96
	Ethnicity	Asian	A	1,928	0.81	0.83	0.97
			B	2,402	0.80	0.86	0.95
		African American	A	947	0.82	0.84	0.98
			B	938	0.76	0.83	0.96
		Hispanic or Latino	A	5,889	0.79	0.83	0.97
			B	5,663	0.78	0.84	0.96
		Native American	A	26	0.76	0.79	0.96
			B	18			
		White	A	1,569	0.80	0.83	0.97
			B	1,500	0.78	0.83	0.95
	LEP	A	10,042	0.80	0.83	0.97	
		B	10,354	0.79	0.85	0.96	
	Low Income	A	7,775	0.79	0.83	0.97	
		B	8,106	0.78	0.85	0.96	
Special Education	A	1,209	0.80	0.84	0.96		
	B	947	0.76	0.85	0.95		
3-4	All Students	1:2	3,520	0.89	0.89	0.98	
		2:3	7,364	0.82	0.76	0.95	
	Gender	Male	1:2	1,962	0.90	0.89	0.98
			2:3	3,781	0.83	0.76	0.94
		Female	1:2	1,538	0.89	0.89	0.98
			2:3	3,576	0.80	0.75	0.95
	Ethnicity	Asian	1:2	595	0.89	0.89	0.97
			2:3	1,543	0.75	0.67	0.94
		African American	1:2	419	0.89	0.89	0.98
			2:3	797	0.83	0.80	0.95
		Hispanic or Latino	1:2	2,045	0.89	0.89	0.98
			2:3	4,012	0.82	0.76	0.95
		Native American	1:2	6			
			2:3	11			
	White	1:2	398	0.89	0.88	0.98	
		2:3	923	0.78	0.71	0.93	
	LEP	1:2	3,406	0.89	0.89	0.98	
		2:3	7,192	0.82	0.76	0.95	
	Low Income	1:2	2,838	0.89	0.89	0.98	
		2:3	5,929	0.82	0.77	0.95	
Special Education	1:2	817	0.86	0.85	0.96		
	2:3	1,018	0.82	0.79	0.94		

continued

Grade span	Subgroup	Session	N	Reporting Subcategory			
				Reading	Writing	MELA-O	
5–6	All Students	1:2	2,049	0.89	0.89	0.98	
		2:3	5,172	0.83	0.74	0.95	
	Gender	Male	1:2	1,100	0.88	0.89	0.98
			2:3	2,729	0.84	0.74	0.95
		Female	1:2	928	0.89	0.89	0.98
			2:3	2,428	0.82	0.71	0.95
	Ethnicity	Asian	1:2	254	0.88	0.88	0.98
			2:3	987	0.81	0.67	0.95
		African American	1:2	345	0.89	0.89	0.98
			2:3	656	0.82	0.77	0.95
		Hispanic or Latino	1:2	1,176	0.88	0.89	0.98
			2:3	2,883	0.82	0.73	0.95
		Native American	1:2	2			
			2:3	6			
	White	1:2	227	0.87	0.88	0.98	
		2:3	587	0.81	0.69	0.93	
	LEP	1:2	1,985	0.88	0.89	0.98	
		2:3	5,014	0.83	0.74	0.95	
	Low Income	1:2	1,717	0.88	0.89	0.98	
		2:3	4,287	0.83	0.73	0.95	
Special Education	1:2	440	0.87	0.85	0.97		
	2:3	1,135	0.81	0.73	0.95		
7–8	All Students	1:2	1,819	0.83		0.89	
		2:3	4,021	0.83		0.79	
	Gender	Male	1:2	970	0.83	0.90	0.98
			2:3	2,173	0.85	0.79	0.96
		Female	1:2	829	0.82	0.88	0.98
			2:3	1,837	0.82	0.78	0.96
	Ethnicity	Asian	1:2	196	0.85	0.90	0.97
			2:3	701	0.80	0.70	0.95
		African American	1:2	314	0.83	0.89	0.98
			2:3	590	0.81	0.79	0.97
		Hispanic or Latino	1:2	1,076	0.81	0.89	0.98
			2:3	2,256	0.83	0.79	0.97
		Native American	1:2	15			
			2:3	8			
	White	1:2	172	0.85	0.90	0.98	
		2:3	418	0.82	0.76	0.94	
	LEP	1:2	1,760	0.82	0.89	0.98	
		2:3	3,908	0.83	0.79	0.96	
	Low Income	1:2	1,545	0.82	0.89	0.98	
		2:3	3,346	0.83	0.79	0.96	
Special Education	1:2	278	0.81	0.89	0.98		
	2:3	907	0.80	0.78	0.96		

continued

Grade span	Subgroup	Session	N	Reporting Subcategory			
				Reading	Writing	MELA-O	
9–12	All Students	1:2	3,325	0.87	0.90	0.98	
		2:3	6,106	0.82	0.83	0.96	
	Gender	Male	1:2	1,770	0.87	0.90	0.98
			2:3	3,177	0.82	0.83	0.95
		Female	1:2	1,490	0.87	0.89	0.98
			2:3	2,878	0.80	0.82	0.96
	Ethnicity	Asian	1:2	470	0.87	0.91	0.97
			2:3	1,103	0.78	0.75	0.95
		African American	1:2	799	0.85	0.88	0.98
			2:3	1,208	0.79	0.81	0.95
		Hispanic or Latino	1:2	1,639	0.88	0.90	0.98
			2:3	3,052	0.83	0.84	0.96
		Native American	1:2	4			
			2:3	6			
	White	1:2	308	0.87	0.87	0.97	
		2:3	632	0.78	0.80	0.95	
	LEP	1:2	3,194	0.87	0.89	0.98	
		2:3	5,889	0.82	0.83	0.96	
	Low Income	1:2	2,639	0.87	0.89	0.98	
		2:3	4,738	0.81	0.83	0.96	
Special Education	1:2	296	0.89	0.92	0.98		
	2:3	683	0.80	0.84	0.97		

For subgroups of fewer than 20 students, sample size was too small to accurately calculate α coefficients.

Table J-6. 2009 MEPA: Subgroup Reliability for Reading, Writing, and MELA-O—Fall 2009 Administration

Grade span	Subgroup	Session	N	Reporting Subcategory			
				Reading	Writing	MELA-O	
K-2	All Students	A	1,232	0.82	0.86	0.98	
		B	372	0.80	0.89	0.97	
	Gender	Male	A	618	0.82	0.85	0.98
			B	198	0.79	0.88	0.97
		Female	A	538	0.82	0.85	0.98
			B	166	0.80	0.89	0.97
	Ethnicity	Asian	A	260	0.84	0.82	0.98
			B	106	0.83	0.89	0.96
		African American	A	136	0.84	0.83	0.98
			B	39	0.74	0.85	0.97
		Hispanic or Latino	A	534	0.81	0.86	0.99
			B	155	0.78	0.89	0.97
		Native American	A	3			
			B	2			
		White	A	209	0.79	0.81	0.98
			B	56	0.75	0.88	0.96
	LEP	A	1,078	0.82	0.85	0.98	
		B	314	0.79	0.89	0.97	
	Low Income	A	735	0.82	0.85	0.98	
		B	236	0.78	0.88	0.97	
Special Education	A	83	0.74	0.81	0.97		
	B	20	0.54	0.87	0.97		
3-4	All Students	1:2	901	0.91	0.92	0.99	
		2:3	253	0.83	0.82	0.94	
	Gender	Male	1:2	436	0.91	0.92	0.99
			2:3	130	0.83	0.82	0.94
		Female	1:2	396	0.90	0.92	0.99
			2:3	117	0.83	0.82	0.95
	Ethnicity	Asian	1:2	165	0.91	0.92	0.98
			2:3	64	0.79	0.79	0.94
		African American	1:2	112	0.88	0.90	0.99
			2:3	28	0.83	0.87	0.93
		Hispanic or Latino	1:2	418	0.90	0.92	0.99
			2:3	112	0.82	0.81	0.95
		Native American	1:2	3			
			2:3	2			
	White	1:2	128	0.92	0.92	0.98	
		2:3	37	0.83	0.74	0.93	
	LEP	1:2	787	0.90	0.92	0.99	
		2:3	223	0.82	0.82	0.94	
	Low Income	1:2	567	0.90	0.92	0.99	
		2:3	146	0.83	0.83	0.95	
Special Education	1:2	70	0.88	0.90	0.98		
	2:3	30	0.81	0.87	0.95		

continued

Grade span	Subgroup	Session	N	Reporting Subcategory			
				Reading	Writing	MELA-O	
5–6	All Students	1:2	753	0.88	0.91	0.98	
		2:3	227	0.81	0.77	0.96	
	Gender	Male	1:2	341	0.89	0.91	0.98
			2:3	116	0.81	0.77	0.95
		Female	1:2	345	0.88	0.90	0.98
			2:3	106	0.81	0.75	0.96
	Ethnicity	Asian	1:2	102	0.88	0.90	0.98
			2:3	47	0.79	0.62	0.96
		African American	1:2	112	0.89	0.90	0.99
			2:3	34	0.81	0.80	0.94
		Hispanic or Latino	1:2	376	0.87	0.91	0.99
			2:3	97	0.80	0.79	0.96
		Native American	1:2	3			
			2:3				
	White	1:2	89	0.88	0.87	0.98	
		2:3	43	0.82	0.74	0.96	
	LEP	1:2	644	0.87	0.90	0.98	
		2:3	211	0.81	0.77	0.96	
Low Income	1:2	482	0.87	0.91	0.99		
	2:3	155	0.79	0.77	0.96		
Special Education	1:2	46	0.89	0.91	0.99		
	2:3	20	0.74	0.79	0.94		
7–8	All Students	1:2	743	0.83	0.92	0.98	
		2:3	302	0.86	0.83	0.98	
	Gender	Male	1:2	357	0.81	0.91	0.98
			2:3	155	0.86	0.84	0.98
		Female	1:2	318	0.84	0.92	0.98
			2:3	129	0.86	0.78	0.98
	Ethnicity	Asian	1:2	106	0.84	0.91	0.97
			2:3	61	0.79	0.74	0.95
		African American	1:2	107	0.86	0.93	0.98
			2:3	41	0.86	0.76	0.94
		Hispanic or Latino	1:2	373	0.79	0.91	0.99
			2:3	133	0.87	0.85	0.99
		Native American	1:2	2			
			2:3				
	White	1:2	85	0.87	0.91	0.98	
		2:3	45	0.84	0.71	0.94	
	LEP	1:2	647	0.82	0.91	0.98	
		2:3	249	0.86	0.83	0.98	
Low Income	1:2	504	0.81	0.91	0.98		
	2:3	199	0.84	0.83	0.98		
Special Education	1:2	29	0.84	0.93	0.99		
	2:3	46	0.85	0.86	0.99		

continued

Grade span	Subgroup	Session	N	Reporting Subcategory			
				Reading	Writing	MELA-O	
9–12	All Students	1:2	1,496	0.84	0.89	0.98	
		2:3	654	0.82	0.82	0.96	
	Gender	Male	1:2	68	0.86	0.89	0.98
			2:3	47	0.78	0.84	0.97
		Female	1:2	757	0.83	0.89	0.98
			2:3	288	0.83	0.82	0.97
	Ethnicity	Asian	1:2	326	0.84	0.87	0.97
			2:3	117	0.78	0.81	0.97
		African American	1:2	618	0.83	0.89	0.98
			2:3	301	0.81	0.80	0.96
		Hispanic or Latino	1:2	1,332	0.84	0.89	0.98
			2:3	554	0.82	0.81	0.96
		Native American	1:2	196	0.84	0.89	0.97
			2:3	113	0.80	0.73	0.94
		White	1:2	1,496	0.84	0.89	0.98
			2:3	654	0.82	0.82	0.96
	LEP	1:2	1,033	0.83	0.88	0.98	
		2:3	398	0.81	0.81	0.97	
	Low Income	1:2	765	0.85	0.89	0.98	
		2:3	306	0.83	0.82	0.96	
Special Education	1:2	96	0.87	0.88	0.97		
	2:3	85	0.80	0.79	0.95		

For subgroups of fewer than 20 students, sample size was too small to accurately calculate α coefficients.