

# APPENDIX L—RAW TO SCALED SCORE CORRESPONDENCE

**Table L-1. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span K–2, Level A, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.00000	400	1	5.0	30	-0.54983	469	3	4.0
1	-3.52678	409	1	10.0	31	-0.48146	470	3	4.0
2	-3.09851	418	1	9.0	32	-0.41240	472	3	4.0
3	-2.83882	423	1	7.0	33	-0.34246	473	3	4.0
4	-2.64775	427	1	6.0	34	-0.27142	474	3	4.0
5	-2.49390	430	1	6.0	35	-0.19900	476	3	4.0
6	-2.36325	433	1	5.0	36	-0.12490	477	3	4.0
7	-2.24830	435	1	5.0	37	-0.04875	479	3	4.0
8	-2.14456	437	1	5.0	38	0.02988	480	3	4.0
9	-2.04911	439	1	5.0	39	0.11151	482	3	4.0
10	-1.95997	441	1	4.0	40	0.19677	484	3	4.0
11	-1.87571	442	1	4.0	41	0.28640	485	4	5.0
12	-1.79527	444	1	4.0	42	0.38136	487	4	5.0
13	-1.71785	445	1	4.0	43	0.48283	489	4	5.0
14	-1.64283	447	1	4.0	44	0.59235	492	4	5.0
15	-1.56973	448	1	4.0	45	0.71203	494	4	5.0
16	-1.49815	450	1	4.0	46	0.84485	497	4	4.0
17	-1.42779	451	1	4.0	47	0.99531	499	4	3.0
18	-1.35839	452	1	4.0	48	1.17087	499	4	4.0
19	-1.28975	454	2	4.0	49	1.38544	499	4	4.0
20	-1.22170	455	2	4.0	50	1.67014	499	4	5.0
21	-1.15410	457	2	4.0	51	2.12468	499	4	5.0
22	-1.08682	458	2	4.0	52	4.00000	499	4	5.0
23	-1.01978	459	2	4.0					
24	-0.95288	461	2	4.0					
25	-0.88604	462	2	4.0					
26	-0.81918	463	2	4.0					
27	-0.75223	465	2	4.0					
28	-0.68508	466	3	4.0					
29	-0.61766	467	3	4.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-2. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span K–2, Level B, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.00000	400	1	5.0	9	-1.78331	444	1	5.0
1	-3.30116	414	1	10.0	10	-1.68786	446	1	5.0
2	-2.86993	423	1	9.0	11	-1.59761	448	1	5.0
3	-2.60662	428	1	7.0	12	-1.51171	450	1	4.0
4	-2.41120	432	1	6.0	13	-1.42957	451	1	4.0
5	-2.25236	435	1	6.0	14	-1.35076	452	1	4.0
6	-2.11615	438	1	5.0	15	-1.27496	454	2	4.0
7	-1.99519	440	1	5.0	16	-1.20189	456	2	4.0
8	-1.88516	442	1	5.0	17	-1.13134	457	2	4.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
18	-1.06309	459	2	4.0
19	-0.99696	460	2	4.0
20	-0.93277	461	2	4.0
21	-0.87034	462	2	4.0
22	-0.80951	464	2	4.0
23	-0.75009	465	2	4.0
24	-0.69194	465	2	4.0
25	-0.63488	467	3	4.0
26	-0.57875	468	3	4.0
27	-0.52341	469	3	4.0
28	-0.46871	470	3	4.0
29	-0.41449	471	3	4.0
30	-0.36060	473	3	4.0
31	-0.30691	474	3	4.0
32	-0.25327	475	3	4.0
33	-0.19951	476	3	4.0
34	-0.14550	477	3	4.0
35	-0.09108	478	3	4.0
36	-0.03606	479	3	4.0
37	0.01972	480	3	4.0
38	0.07645	481	3	4.0
39	0.13435	482	3	4.0
40	0.19363	484	3	4.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
41	0.25456	484	3	4.0
42	0.31743	486	4	4.0
43	0.38256	487	4	4.0
44	0.45033	489	4	4.0
45	0.52120	490	4	4.0
46	0.59571	492	4	4.0
47	0.67450	493	4	4.0
48	0.75838	495	4	4.0
49	0.84836	497	4	5.0
50	0.94576	499	4	5.0
51	1.05230	501	5	5.0
52	1.17036	503	5	5.0
53	1.30335	506	5	6.0
54	1.45635	509	5	6.0
55	1.63762	512	5	7.0
56	1.86204	517	5	8.0
57	2.16186	523	5	9.0
58	2.63757	532	5	10.0
59	4.00000	550	5	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-3. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 3–4, Reading Sessions 1 & 2/Writing Sessions 2 & 3, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.73450	400	1	5.0
1	-4.60250	400	1	5.0
2	-4.47051	400	1	5.0
3	-4.33851	400	1	5.0
4	-4.20652	400	1	4.0
5	-4.07452	400	1	4.0
6	-3.92229	402	1	5.0
7	-3.75775	405	1	6.0
8	-3.60879	408	1	7.0
9	-3.47222	411	1	7.0
10	-3.34589	413	1	6.0
11	-3.22821	415	1	6.0
12	-3.11796	418	1	6.0
13	-3.01414	420	1	6.0
14	-2.91588	422	1	6.0
15	-2.82249	424	1	6.0
16	-2.73334	425	1	5.0
17	-2.64790	427	1	5.0
18	-2.56570	429	1	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
19	-2.48636	430	1	5.0
20	-2.40950	431	1	5.0
21	-2.33482	433	2	5.0
22	-2.26205	435	2	5.0
23	-2.19094	436	2	5.0
24	-2.12127	438	2	5.0
25	-2.05283	439	2	5.0
26	-1.98545	440	2	5.0
27	-1.91894	442	2	5.0
28	-1.85317	443	2	5.0
29	-1.78798	444	2	5.0
30	-1.72323	446	2	5.0
31	-1.65880	447	2	5.0
32	-1.59458	448	2	5.0
33	-1.53043	450	2	5.0
34	-1.46626	451	2	5.0
35	-1.40197	452	3	5.0
36	-1.33745	453	3	5.0
37	-1.27261	455	3	5.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
38	-1.20735	456	3	5.0
39	-1.14160	457	3	5.0
40	-1.07527	459	3	5.0
41	-1.00828	460	3	5.0
42	-0.94056	461	3	5.0
43	-0.87203	463	3	5.0
44	-0.80262	464	3	5.0
45	-0.73226	466	3	5.0
46	-0.66088	467	3	5.0
47	-0.58841	468	3	5.0
48	-0.51478	470	3	5.0
49	-0.43991	471	3	5.0
50	-0.36371	473	3	5.0
51	-0.28609	475	4	5.0
52	-0.20697	476	4	5.0
53	-0.12621	478	4	5.0
54	-0.04371	479	4	5.0
55	0.04067	481	4	5.0
56	0.12710	483	4	5.0
57	0.21575	485	4	5.0
58	0.30684	486	4	5.0
59	0.40062	488	4	6.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
60	0.49739	490	4	6.0
61	0.59752	492	4	6.0
62	0.70144	494	4	6.0
63	0.80970	496	4	5.0
64	0.92296	499	4	3.0
65	1.04202	499	4	3.0
66	1.16785	499	4	3.0
67	1.30165	499	4	4.0
68	1.44487	499	4	4.0
69	1.59927	499	4	4.0
70	1.76703	499	4	4.0
71	1.95087	499	4	4.0
72	2.15430	499	4	4.0
73	2.38208	499	4	5.0
74	2.64117	499	4	5.0
75	2.94343	499	4	5.0
76	3.31682	499	4	5.0
77	3.86214	499	4	5.0
78	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-4. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 3–4, Reading Sessions 1 & 2/Writing Sessions 1 & 2, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.71610	400	1	5.0
1	-4.60416	400	1	5.0
2	-4.49223	400	1	5.0
3	-4.38029	400	1	4.0
4	-4.26836	400	1	4.0
5	-4.15642	400	1	4.0
6	-4.04449	400	1	4.0
7	-3.90831	402	1	5.0
8	-3.76813	405	1	6.0
9	-3.64001	407	1	6.0
10	-3.52162	410	1	6.0
11	-3.41126	412	1	6.0
12	-3.30767	414	1	6.0
13	-3.20986	416	1	6.0
14	-3.11702	418	1	6.0
15	-3.02848	419	1	5.0
16	-2.94368	421	1	5.0
17	-2.86212	423	1	5.0
18	-2.78340	424	1	5.0
19	-2.70714	426	1	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
20	-2.63304	427	1	5.0
21	-2.56081	429	1	5.0
22	-2.49021	430	1	5.0
23	-2.42102	431	1	5.0
24	-2.35304	433	2	5.0
25	-2.28609	434	2	5.0
26	-2.22002	436	2	5.0
27	-2.15469	437	2	5.0
28	-2.08995	438	2	5.0
29	-2.02569	440	2	5.0
30	-1.96179	441	2	5.0
31	-1.89817	442	2	5.0
32	-1.83470	443	2	5.0
33	-1.77132	445	2	5.0
34	-1.70792	446	2	5.0
35	-1.64444	447	2	5.0
36	-1.58078	449	2	5.0
37	-1.51687	450	2	5.0
38	-1.45263	451	2	5.0
39	-1.38800	452	3	5.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
40	-1.32288	454	3	5.0
41	-1.25721	455	3	5.0
42	-1.19091	456	3	5.0
43	-1.12389	458	3	5.0
44	-1.05608	459	3	5.0
45	-0.98739	460	3	5.0
46	-0.91772	462	3	5.0
47	-0.84698	463	3	5.0
48	-0.77507	465	3	5.0
49	-0.70187	466	3	5.0
50	-0.62727	468	3	5.0
51	-0.55112	469	3	5.0
52	-0.47329	471	3	5.0
53	-0.39361	472	3	5.0
54	-0.31190	474	4	5.0
55	-0.22797	476	4	5.0
56	-0.14159	477	4	5.0
57	-0.05254	479	4	6.0
58	0.03944	481	4	6.0
59	0.13464	483	4	6.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
60	0.23336	485	4	6.0
61	0.33597	487	4	6.0
62	0.44287	489	4	6.0
63	0.55458	491	4	6.0
64	0.67174	494	4	6.0
65	0.79519	496	4	5.0
66	0.92604	499	4	4.0
67	1.06581	499	4	4.0
68	1.21661	499	4	4.0
69	1.38141	499	4	4.0
70	1.56455	499	4	4.0
71	1.77264	499	4	4.0
72	2.01644	499	4	5.0
73	2.31519	499	4	5.0
74	2.70751	499	4	5.0
75	3.29888	499	4	5.0
76	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-5. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 3–4, Reading Sessions 2 & 3/Writing Sessions 2 & 3, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.69822	400	1	5.0
1	-4.53497	400	1	5.0
2	-4.37172	400	1	5.0
3	-4.20847	400	1	5.0
4	-4.04523	400	1	5.0
5	-3.84527	403	1	6.0
6	-3.65365	407	1	8.0
7	-3.48185	410	1	8.0
8	-3.32575	414	1	7.0
9	-3.18263	416	1	7.0
10	-3.05049	419	1	7.0
11	-2.92771	422	1	6.0
12	-2.81295	424	1	6.0
13	-2.70508	426	1	6.0
14	-2.60317	428	1	6.0
15	-2.50640	430	1	6.0
16	-2.41412	431	1	6.0
17	-2.32573	434	2	5.0
18	-2.24075	435	2	5.0
19	-2.15875	437	2	5.0
20	-2.07934	439	2	5.0
21	-2.00220	440	2	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
22	-1.92704	442	2	5.0
23	-1.85359	443	2	5.0
24	-1.78161	445	2	5.0
25	-1.71090	446	2	5.0
26	-1.64125	447	2	5.0
27	-1.57250	449	2	5.0
28	-1.50447	450	2	5.0
29	-1.43703	451	2	5.0
30	-1.37002	453	3	5.0
31	-1.30333	454	3	5.0
32	-1.23682	455	3	5.0
33	-1.17039	457	3	5.0
34	-1.10393	458	3	5.0
35	-1.03733	459	3	5.0
36	-0.97050	461	3	5.0
37	-0.90334	462	3	5.0
38	-0.83578	463	3	5.0
39	-0.76771	465	3	5.0
40	-0.69908	466	3	5.0
41	-0.62978	468	3	5.0
42	-0.55975	469	3	5.0
43	-0.48892	470	3	5.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
44	-0.41720	472	3	5.0
45	-0.34452	473	3	5.0
46	-0.27082	475	4	5.0
47	-0.19601	476	4	5.0
48	-0.12002	478	4	5.0
49	-0.04276	479	4	5.0
50	0.03585	481	4	5.0
51	0.11590	483	4	5.0
52	0.19749	484	4	5.0
53	0.28076	486	4	5.0
54	0.36585	488	4	5.0
55	0.45291	489	4	5.0
56	0.54215	491	4	5.0
57	0.63379	493	4	5.0
58	0.72811	495	4	6.0
59	0.82543	497	4	6.0
60	0.92609	499	4	6.0
61	1.03051	501	5	6.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
62	1.13914	503	5	6.0
63	1.25250	505	5	6.0
64	1.37117	508	5	6.0
65	1.49584	510	5	6.0
66	1.62732	513	5	7.0
67	1.76660	516	5	7.0
68	1.91495	519	5	7.0
69	2.07404	522	5	7.0
70	2.24624	525	5	7.0
71	2.43497	529	5	8.0
72	2.64547	533	5	8.0
73	2.88634	538	5	9.0
74	3.17384	544	5	8.0
75	3.54702	550	5	5.0
76	4.00000	550	5	5.0
77	4.00000	550	5	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-6. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 3–4, Reading Sessions 2 & 3/Writing Sessions 1 & 2, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.68283	400	1	5.0
1	-4.54920	400	1	5.0
2	-4.41558	400	1	5.0
3	-4.28195	400	1	5.0
4	-4.14832	400	1	4.0
5	-4.01469	400	1	4.0
6	-3.84243	403	1	6.0
7	-3.68360	406	1	7.0
8	-3.53952	409	1	7.0
9	-3.40714	412	1	7.0
10	-3.28432	414	1	6.0
11	-3.16948	417	1	6.0
12	-3.06138	419	1	6.0
13	-2.95901	421	1	6.0
14	-2.86154	423	1	6.0
15	-2.76828	425	1	6.0
16	-2.67865	427	1	6.0
17	-2.59218	428	1	6.0
18	-2.50843	430	1	5.0
19	-2.42707	431	1	5.0
20	-2.34780	433	2	5.0
21	-2.27034	435	2	5.0
22	-2.19449	436	2	5.0
23	-2.12004	438	2	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
24	-2.04683	439	2	5.0
25	-1.97470	441	2	5.0
26	-1.90352	442	2	5.0
27	-1.83317	443	2	5.0
28	-1.76354	445	2	5.0
29	-1.69452	446	2	5.0
30	-1.62602	448	2	5.0
31	-1.55793	449	2	5.0
32	-1.49018	450	2	5.0
33	-1.42266	451	2	5.0
34	-1.35528	453	3	5.0
35	-1.28796	454	3	5.0
36	-1.22060	456	3	5.0
37	-1.15311	457	3	5.0
38	-1.08538	458	3	5.0
39	-1.01732	460	3	5.0
40	-0.94883	461	3	5.0
41	-0.87980	463	3	5.0
42	-0.81012	464	3	5.0
43	-0.73969	465	3	5.0
44	-0.66837	467	3	5.0
45	-0.59606	468	3	5.0
46	-0.52263	470	3	5.0
47	-0.44795	471	3	5.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
48	-0.37188	473	3	5.0
49	-0.29428	474	4	5.0
50	-0.21501	476	4	5.0
51	-0.13393	478	4	5.0
52	-0.05088	479	4	5.0
53	0.03428	481	4	5.0
54	0.12172	483	4	6.0
55	0.21161	484	4	6.0
56	0.30412	486	4	6.0
57	0.39945	488	4	6.0
58	0.49785	490	4	6.0
59	0.59962	492	4	6.0
60	0.70511	494	4	6.0
61	0.81479	497	4	4.0
62	0.92920	499	4	3.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
63	1.04905	499	4	3.0
64	1.17522	499	4	4.0
65	1.30879	499	4	4.0
66	1.45120	499	4	4.0
67	1.60436	499	4	4.0
68	1.77088	499	4	4.0
69	1.95464	499	4	4.0
70	2.16162	499	4	4.0
71	2.40204	499	4	5.0
72	2.69500	499	4	5.0
73	3.08397	499	4	5.0
74	3.72995	499	4	5.0
75	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-7. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 5–6, Reading Sessions 1 & 2/Writing Sessions 2 & 3, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.86821	400	1	5.0
1	-4.73009	400	1	5.0
2	-4.59196	400	1	5.0
3	-4.45383	400	1	5.0
4	-4.31570	400	1	5.0
5	-4.17757	400	1	5.0
6	-4.03944	400	1	4.0
7	-3.87320	403	1	6.0
8	-3.71124	406	1	7.0
9	-3.56304	409	1	7.0
10	-3.42546	412	1	7.0
11	-3.29642	414	1	7.0
12	-3.17450	417	1	7.0
13	-3.05867	419	1	7.0
14	-2.94813	421	1	7.0
15	-2.84225	423	1	6.0
16	-2.74048	425	1	6.0
17	-2.64235	427	1	6.0
18	-2.54744	429	1	6.0
19	-2.45538	431	1	6.0
20	-2.36583	433	1	6.0
21	-2.27847	435	1	6.0
22	-2.19306	436	2	6.0
23	-2.10933	438	2	6.0
24	-2.02706	440	2	6.0
25	-1.94606	441	2	6.0
26	-1.86615	443	2	6.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
27	-1.78715	445	2	6.0
28	-1.70891	446	2	6.0
29	-1.63130	448	2	6.0
30	-1.55418	449	2	6.0
31	-1.47743	451	2	6.0
32	-1.40094	452	2	6.0
33	-1.32461	454	2	6.0
34	-1.24834	455	2	6.0
35	-1.17206	457	3	6.0
36	-1.09569	459	3	6.0
37	-1.01916	460	3	6.0
38	-0.94240	462	3	6.0
39	-0.86537	463	3	6.0
40	-0.78801	465	3	6.0
41	-0.71027	466	3	6.0
42	-0.63210	468	3	6.0
43	-0.55346	469	3	6.0
44	-0.47427	471	3	6.0
45	-0.39448	473	3	6.0
46	-0.31401	474	3	6.0
47	-0.23279	476	3	6.0
48	-0.15072	478	3	6.0
49	-0.06771	479	4	6.0
50	0.01637	481	4	6.0
51	0.10163	483	4	6.0
52	0.18820	484	4	6.0
53	0.27625	486	4	6.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
54	0.36594	488	4	6.0
55	0.45747	490	4	6.0
56	0.55105	492	4	6.0
57	0.64696	494	4	6.0
58	0.74551	496	4	5.0
59	0.84707	498	4	4.0
60	0.95210	499	4	3.0
61	1.06116	499	4	3.0
62	1.17496	499	4	4.0
63	1.29433	499	4	4.0
64	1.42030	499	4	4.0
65	1.55413	499	4	4.0
66	1.69731	499	4	4.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
67	1.85163	499	4	4.0
68	2.01919	499	4	4.0
69	2.20252	499	4	4.0
70	2.40467	499	4	5.0
71	2.62969	499	4	5.0
72	2.88314	499	4	5.0
73	3.17268	499	4	5.0
74	3.50876	499	4	5.0
75	3.90719	499	4	5.0
76	4.00000	499	4	5.0
77	4.00000	499	4	5.0
78	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-8. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 5–6, Reading Sessions 1 & 2/Writing Sessions 1 & 2, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.79707	400	1	5.0
1	-4.67674	400	1	5.0
2	-4.55640	400	1	5.0
3	-4.43606	400	1	5.0
4	-4.31572	400	1	5.0
5	-4.19538	400	1	4.0
6	-4.07504	400	1	4.0
7	-3.93919	401	1	4.0
8	-3.78929	404	1	6.0
9	-3.65283	407	1	7.0
10	-3.52667	410	1	7.0
11	-3.40869	412	1	6.0
12	-3.29739	414	1	6.0
13	-3.19165	416	1	6.0
14	-3.09063	418	1	6.0
15	-2.99367	420	1	6.0
16	-2.90020	422	1	6.0
17	-2.80981	424	1	6.0
18	-2.72211	426	1	6.0
19	-2.63676	427	1	6.0
20	-2.55349	429	1	6.0
21	-2.47206	431	1	6.0
22	-2.39225	432	1	6.0
23	-2.31387	434	1	6.0
24	-2.23677	435	1	6.0
25	-2.16078	437	2	6.0
26	-2.08581	439	2	5.0
27	-2.01171	440	2	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
28	-1.93840	442	2	5.0
29	-1.86577	443	2	5.0
30	-1.79374	444	2	5.0
31	-1.72223	446	2	5.0
32	-1.65116	447	2	5.0
33	-1.58045	449	2	5.0
34	-1.51002	450	2	5.0
35	-1.43980	452	2	5.0
36	-1.36971	453	2	5.0
37	-1.29968	454	2	5.0
38	-1.22962	455	2	5.0
39	-1.15945	457	3	5.0
40	-1.08911	459	3	5.0
41	-1.01850	460	3	5.0
42	-0.94754	462	3	5.0
43	-0.87614	463	3	5.0
44	-0.80423	464	3	5.0
45	-0.73170	466	3	5.0
46	-0.65845	467	3	5.0
47	-0.58439	469	3	5.0
48	-0.50939	470	3	5.0
49	-0.43332	472	3	6.0
50	-0.35607	473	3	6.0
51	-0.27747	475	3	6.0
52	-0.19735	477	3	6.0
53	-0.11555	478	3	6.0
54	-0.03185	480	4	6.0
55	0.05396	482	4	6.0

continued



<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
56	0.14212	484	4	6.0
57	0.23290	485	4	6.0
58	0.32659	487	4	6.0
59	0.42354	489	4	6.0
60	0.52410	491	4	6.0
61	0.62873	493	4	6.0
62	0.73797	496	4	5.0
63	0.85248	498	4	4.0
64	0.97314	499	4	4.0
65	1.10110	499	4	4.0
66	1.23798	499	4	4.0
67	1.38604	499	4	4.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
68	1.54855	499	4	4.0
69	1.73041	499	4	4.0
70	1.93921	499	4	5.0
71	2.18731	499	4	5.0
72	2.49628	499	4	5.0
73	2.90788	499	4	5.0
74	3.51341	499	4	5.0
75	4.00000	499	4	5.0
76	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-9. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 5–6, Reading Sessions 2 & 3/Writing Sessions 2 & 3, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.74333	400	1	5.0
1	-4.58049	400	1	5.0
2	-4.41765	400	1	5.0
3	-4.25480	400	1	5.0
4	-4.09196	400	1	5.0
5	-3.90634	402	1	5.0
6	-3.71141	406	1	7.0
7	-3.53720	409	1	8.0
8	-3.37802	413	1	8.0
9	-3.23050	416	1	7.0
10	-3.09250	418	1	7.0
11	-2.96251	421	1	7.0
12	-2.83942	423	1	7.0
13	-2.72233	426	1	7.0
14	-2.61045	428	1	7.0
15	-2.50313	430	1	6.0
16	-2.39979	432	1	6.0
17	-2.29991	434	1	6.0
18	-2.20308	436	2	6.0
19	-2.10889	438	2	6.0
20	-2.01703	440	2	6.0
21	-1.92720	442	2	6.0
22	-1.83915	444	2	6.0
23	-1.75265	445	2	6.0
24	-1.66752	447	2	6.0
25	-1.58357	449	2	6.0
26	-1.50065	450	2	6.0
27	-1.41863	452	2	6.0
28	-1.33737	454	2	6.0
29	-1.25678	455	2	6.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
30	-1.17676	457	3	6.0
31	-1.09721	459	3	6.0
32	-1.01808	460	3	6.0
33	-0.93928	462	3	6.0
34	-0.86075	463	3	6.0
35	-0.78244	465	3	6.0
36	-0.70428	466	3	6.0
37	-0.62620	468	3	6.0
38	-0.54814	470	3	6.0
39	-0.47002	471	3	6.0
40	-0.39175	473	3	6.0
41	-0.31326	474	3	6.0
42	-0.23444	476	3	6.0
43	-0.15520	478	3	6.0
44	-0.07542	479	4	6.0
45	0.00501	481	4	6.0
46	0.08621	482	4	6.0
47	0.16829	484	4	6.0
48	0.25139	486	4	6.0
49	0.33564	487	4	6.0
50	0.42119	489	4	6.0
51	0.50818	491	4	6.0
52	0.59680	493	4	6.0
53	0.68723	495	4	6.0
54	0.77969	496	4	6.0
55	0.87445	498	4	6.0
56	0.97179	500	5	6.0
57	1.07209	502	5	6.0
58	1.17575	504	5	6.0
59	1.28328	507	5	6.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
60	1.39524	509	5	6.0
61	1.51231	511	5	7.0
62	1.63523	514	5	7.0
63	1.76485	516	5	7.0
64	1.90205	519	5	7.0
65	2.04779	522	5	7.0
66	2.20308	525	5	8.0
67	2.36901	528	5	8.0
68	2.54699	532	5	8.0
69	2.73887	536	5	9.0
70	2.94734	540	5	9.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
71	3.17635	545	5	8.0
72	3.43198	550	5	5.0
73	3.72440	550	5	5.0
74	4.00000	550	5	5.0
75	4.00000	550	5	5.0
76	4.00000	550	5	5.0
77	4.00000	550	5	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-10. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 5–6, Reading Sessions 2 & 3/Writing Sessions 1 & 2, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.67988	400	1	5.0
1	-4.54121	400	1	5.0
2	-4.40254	400	1	5.0
3	-4.26387	400	1	5.0
4	-4.12519	400	1	4.0
5	-3.98125	400	1	4.0
6	-3.80253	404	1	6.0
7	-3.64386	407	1	7.0
8	-3.49962	410	1	7.0
9	-3.36634	413	1	7.0
10	-3.24171	415	1	7.0
11	-3.12413	418	1	6.0
12	-3.01241	420	1	6.0
13	-2.90566	422	1	6.0
14	-2.80315	424	1	6.0
15	-2.70431	426	1	6.0
16	-2.60865	428	1	6.0
17	-2.51577	430	1	6.0
18	-2.42534	432	1	6.0
19	-2.33706	434	1	6.0
20	-2.25069	435	1	6.0
21	-2.16603	437	2	6.0
22	-2.08291	439	2	6.0
23	-2.00117	440	2	6.0
24	-1.92070	442	2	6.0
25	-1.84136	444	2	6.0
26	-1.76307	445	2	6.0
27	-1.68572	447	2	6.0
28	-1.60922	448	2	6.0
29	-1.53348	450	2	5.0
30	-1.45842	451	2	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
31	-1.38396	453	2	5.0
32	-1.30999	454	2	5.0
33	-1.23645	455	2	5.0
34	-1.16324	457	3	5.0
35	-1.09028	459	3	5.0
36	-1.01748	460	3	5.0
37	-0.94476	462	3	5.0
38	-0.87203	463	3	5.0
39	-0.79919	465	3	5.0
40	-0.72615	466	3	5.0
41	-0.65282	467	3	5.0
42	-0.57908	469	3	5.0
43	-0.50483	470	3	5.0
44	-0.42994	472	3	5.0
45	-0.35429	474	3	5.0
46	-0.27774	475	3	5.0
47	-0.20014	477	3	5.0
48	-0.12133	478	3	6.0
49	-0.04114	480	4	6.0
50	0.04061	481	4	6.0
51	0.12411	483	4	6.0
52	0.20956	485	4	6.0
53	0.29719	487	4	6.0
54	0.38722	488	4	6.0
55	0.47988	490	4	6.0
56	0.57545	492	4	6.0
57	0.67423	494	4	6.0
58	0.77657	496	4	5.0
59	0.88289	498	4	4.0
60	0.99372	499	4	3.0
61	1.10972	499	4	4.0

continued

Raw Score	Theta	SS	Performance Level	SEM
62	1.23180	499	4	4.0
63	1.36110	499	4	4.0
64	1.49918	499	4	4.0
65	1.64808	499	4	4.0
66	1.81052	499	4	4.0
67	1.99008	499	4	4.0
68	2.19141	499	4	5.0
69	2.42054	499	4	5.0

Raw Score	Theta	SS	Performance Level	SEM
70	2.68574	499	4	5.0
71	2.99969	499	4	5.0
72	3.38595	499	4	5.0
73	3.89859	499	4	5.0
74	4.00000	499	4	5.0
75	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-11. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 7–8, Reading Sessions 1 & 2/Writing Sessions 2 & 3, Spring 2012**

Raw Score	Theta	SS	Performance Level	SEM
0	-4.66689	400	1	5.0
1	-4.49829	400	1	5.0
2	-4.32969	400	1	5.0
3	-4.16109	400	1	5.0
4	-3.98870	400	1	5.0
5	-3.76155	405	1	7.0
6	-3.57106	409	1	8.0
7	-3.40423	412	1	7.0
8	-3.25372	415	1	7.0
9	-3.11512	418	1	7.0
10	-2.98572	420	1	6.0
11	-2.86380	423	1	6.0
12	-2.74822	425	1	6.0
13	-2.63821	427	1	6.0
14	-2.53317	429	1	6.0
15	-2.43261	431	1	6.0
16	-2.33611	433	1	6.0
17	-2.24325	435	1	6.0
18	-2.15366	437	1	6.0
19	-2.06698	439	1	5.0
20	-1.98288	441	1	5.0
21	-1.90104	442	1	5.0
22	-1.82120	444	2	5.0
23	-1.74310	445	2	5.0
24	-1.66649	447	2	5.0
25	-1.59119	448	2	5.0
26	-1.51700	450	2	5.0
27	-1.44377	451	2	5.0
28	-1.37136	453	2	5.0
29	-1.29964	454	2	5.0
30	-1.22849	456	2	5.0
31	-1.15783	457	2	5.0
32	-1.08756	458	2	5.0
33	-1.01759	460	2	5.0

Raw Score	Theta	SS	Performance Level	SEM
34	-0.94785	461	2	5.0
35	-0.87826	463	2	5.0
36	-0.80877	464	3	5.0
37	-0.73929	465	3	5.0
38	-0.66978	467	3	5.0
39	-0.60019	468	3	5.0
40	-0.53046	470	3	5.0
41	-0.46055	471	3	5.0
42	-0.39042	472	3	5.0
43	-0.32003	474	3	5.0
44	-0.24934	475	3	5.0
45	-0.17832	477	3	5.0
46	-0.10690	478	3	5.0
47	-0.03504	480	3	5.0
48	0.03735	481	3	5.0
49	0.11035	483	3	5.0
50	0.18407	484	3	5.0
51	0.25864	485	3	5.0
52	0.33421	487	4	5.0
53	0.41093	489	4	5.0
54	0.48899	490	4	5.0
55	0.56857	492	4	5.0
56	0.64987	493	4	5.0
57	0.73307	495	4	5.0
58	0.81835	497	4	4.0
59	0.90590	499	4	3.0
60	0.99587	499	4	3.0
61	1.08845	499	4	3.0
62	1.18383	499	4	3.0
63	1.28227	499	4	3.0
64	1.38414	499	4	3.0
65	1.48998	499	4	3.0
66	1.60057	499	4	3.0
67	1.71700	499	4	3.0

continued

Raw Score	Theta	SS	Performance Level	SEM
68	1.84076	499	4	3.0
69	1.97389	499	4	3.0
70	2.11903	499	4	4.0
71	2.27961	499	4	4.0
72	2.45993	499	4	4.0
73	2.66542	499	4	4.0
74	2.90396	499	4	5.0

Raw Score	Theta	SS	Performance Level	SEM
75	3.19096	499	4	5.0
76	3.56814	499	4	5.0
77	4.00000	499	4	5.0
78	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-12. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 7–8, Reading Sessions 1 & 2/Writing Sessions 1 & 2, Spring 2012**

Raw Score	Theta	SS	Performance Level	SEM
0	-4.61278	400	1	5.0
1	-4.46389	400	1	5.0
2	-4.31500	400	1	5.0
3	-4.16611	400	1	5.0
4	-4.01722	400	1	5.0
5	-3.81327	404	1	6.0
6	-3.63465	407	1	7.0
7	-3.47907	410	1	7.0
8	-3.33958	413	1	7.0
9	-3.21187	416	1	6.0
10	-3.09320	418	1	6.0
11	-2.98173	420	1	6.0
12	-2.87622	423	1	6.0
13	-2.77578	425	1	6.0
14	-2.67975	427	1	6.0
15	-2.58762	428	1	6.0
16	-2.49896	430	1	5.0
17	-2.41339	432	1	5.0
18	-2.33060	434	1	5.0
19	-2.25027	435	1	5.0
20	-2.17214	437	1	5.0
21	-2.09593	438	1	5.0
22	-2.02143	440	1	5.0
23	-1.94840	441	1	5.0
24	-1.87666	442	1	5.0
25	-1.80603	444	2	5.0
26	-1.73636	445	2	5.0
27	-1.66751	447	2	5.0
28	-1.59935	448	2	5.0
29	-1.53180	450	2	5.0
30	-1.46476	451	2	5.0
31	-1.39817	452	2	5.0
32	-1.33195	454	2	5.0
33	-1.26606	455	2	5.0
34	-1.20043	456	2	5.0

Raw Score	Theta	SS	Performance Level	SEM
35	-1.13502	458	2	5.0
36	-1.06976	459	2	5.0
37	-1.00460	460	2	5.0
38	-0.93948	461	2	5.0
39	-0.87431	463	2	5.0
40	-0.80901	464	3	5.0
41	-0.74350	465	3	5.0
42	-0.67768	467	3	5.0
43	-0.61145	468	3	5.0
44	-0.54471	469	3	5.0
45	-0.47735	471	3	5.0
46	-0.40926	472	3	5.0
47	-0.34033	473	3	5.0
48	-0.27045	475	3	5.0
49	-0.19950	476	3	5.0
50	-0.12736	478	3	5.0
51	-0.05391	479	3	5.0
52	0.02099	481	3	5.0
53	0.09747	482	3	5.0
54	0.17571	484	3	5.0
55	0.25586	485	3	5.0
56	0.33815	487	4	5.0
57	0.42282	489	4	5.0
58	0.51011	491	4	6.0
59	0.60035	492	4	6.0
60	0.69388	494	4	6.0
61	0.79105	496	4	5.0
62	0.89230	498	4	4.0
63	0.99810	499	4	3.0
64	1.10900	499	4	3.0
65	1.22574	499	4	3.0
66	1.34932	499	4	3.0
67	1.48126	499	4	4.0
68	1.62390	499	4	4.0
69	1.78090	499	4	4.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
70	1.95817	499	4	4.0
71	2.16534	499	4	4.0
72	2.41871	499	4	5.0
73	2.74654	499	4	5.0
74	3.19960	499	4	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
75	3.92531	499	4	5.0
76	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-13. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 7–8, Reading Sessions 2 & 3/Writing Sessions 2 & 3, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.64994	400	1	5.0
1	-4.45460	400	1	5.0
2	-4.25927	400	1	5.0
3	-4.06393	400	1	5.0
4	-3.81777	404	1	7.0
5	-3.59104	408	1	8.0
6	-3.39740	412	1	8.0
7	-3.22487	416	1	7.0
8	-3.06689	419	1	7.0
9	-2.91979	422	1	7.0
10	-2.78145	424	1	7.0
11	-2.65063	427	1	7.0
12	-2.52649	430	1	7.0
13	-2.40837	432	1	6.0
14	-2.29569	434	1	6.0
15	-2.18790	436	1	6.0
16	-2.08443	438	1	6.0
17	-1.98478	440	1	6.0
18	-1.88844	442	1	6.0
19	-1.79498	444	2	6.0
20	-1.70401	446	2	6.0
21	-1.61517	448	2	6.0
22	-1.52818	450	2	6.0
23	-1.44280	451	2	5.0
24	-1.35880	453	2	5.0
25	-1.27603	455	2	5.0
26	-1.19433	456	2	5.0
27	-1.11359	458	2	5.0
28	-1.03370	460	2	5.0
29	-0.95456	461	2	5.0
30	-0.87611	463	2	5.0
31	-0.79826	464	3	5.0
32	-0.72095	466	3	5.0
33	-0.64413	467	3	5.0
34	-0.56775	469	3	5.0
35	-0.49177	470	3	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
36	-0.41615	472	3	5.0
37	-0.34085	473	3	5.0
38	-0.26584	475	3	5.0
39	-0.19109	476	3	5.0
40	-0.11654	478	3	5.0
41	-0.04212	479	3	5.0
42	0.03223	481	3	5.0
43	0.10662	482	3	5.0
44	0.18115	484	3	5.0
45	0.25594	485	3	5.0
46	0.33113	487	4	5.0
47	0.40688	488	4	5.0
48	0.48333	490	4	5.0
49	0.56063	492	4	5.0
50	0.63895	493	4	5.0
51	0.71841	495	4	5.0
52	0.79916	496	4	5.0
53	0.88130	498	4	5.0
54	0.96495	499	4	5.0
55	1.05020	501	5	5.0
56	1.13717	503	5	5.0
57	1.22598	505	5	6.0
58	1.31683	507	5	6.0
59	1.40996	509	5	6.0
60	1.50576	511	5	6.0
61	1.60469	513	5	6.0
62	1.70741	515	5	6.0
63	1.81476	517	5	6.0
64	1.92777	519	5	6.0
65	2.04775	521	5	6.0
66	2.17623	524	5	7.0
67	2.31502	527	5	7.0
68	2.46622	530	5	7.0
69	2.63231	533	5	8.0
70	2.81655	537	5	8.0
71	3.02392	541	5	8.0

continued

Raw Score	Theta	SS	Performance Level	SEM
72	3.26366	546	5	7.0
73	3.55482	550	5	5.0
74	3.94034	550	5	5.0
75	4.00000	550	5	5.0

Raw Score	Theta	SS	Performance Level	SEM
76	4.00000	550	5	5.0
77	4.00000	550	5	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-14. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 7–8, Reading Sessions 2 & 3/Writing Sessions 1 & 2, Spring 2012**

Raw Score	Theta	SS	Performance Level	SEM
0	-4.59064	400	1	5.0
1	-4.42128	400	1	5.0
2	-4.25192	400	1	5.0
3	-4.08256	400	1	5.0
4	-3.87297	403	1	6.0
5	-3.66201	407	1	8.0
6	-3.48324	410	1	7.0
7	-3.32539	414	1	7.0
8	-3.18211	416	1	7.0
9	-3.04958	419	1	6.0
10	-2.92545	422	1	6.0
11	-2.80815	424	1	6.0
12	-2.69667	426	1	6.0
13	-2.59024	428	1	6.0
14	-2.48827	430	1	6.0
15	-2.39025	432	1	6.0
16	-2.29573	434	1	6.0
17	-2.20428	436	1	6.0
18	-2.11552	438	1	6.0
19	-2.02910	440	1	5.0
20	-1.94470	441	1	5.0
21	-1.86202	443	2	5.0
22	-1.78081	445	2	5.0
23	-1.70087	446	2	5.0
24	-1.62201	448	2	5.0
25	-1.54408	449	2	5.0
26	-1.46698	451	2	5.0
27	-1.39062	452	2	5.0
28	-1.31494	454	2	5.0
29	-1.23987	455	2	5.0
30	-1.16537	457	2	5.0
31	-1.09138	458	2	5.0
32	-1.01784	460	2	5.0
33	-0.94469	461	2	5.0
34	-0.87184	463	2	5.0
35	-0.79921	464	3	5.0
36	-0.72669	466	3	5.0
37	-0.65419	467	3	5.0
38	-0.58159	469	3	5.0

Raw Score	Theta	SS	Performance Level	SEM
39	-0.50878	470	3	5.0
40	-0.43565	472	3	5.0
41	-0.36212	473	3	5.0
42	-0.28806	475	3	5.0
43	-0.21339	476	3	5.0
44	-0.13801	478	3	5.0
45	-0.06183	479	3	5.0
46	0.01524	481	3	5.0
47	0.09332	482	3	5.0
48	0.17251	484	3	5.0
49	0.25294	485	3	5.0
50	0.33475	487	4	5.0
51	0.41811	489	4	6.0
52	0.50319	490	4	6.0
53	0.59018	492	4	6.0
54	0.67932	494	4	6.0
55	0.77080	496	4	5.0
56	0.86488	498	4	4.0
57	0.96179	499	4	3.0
58	1.06182	499	4	3.0
59	1.16531	499	4	3.0
60	1.27268	499	4	3.0
61	1.38458	499	4	3.0
62	1.50185	499	4	3.0
63	1.62577	499	4	4.0
64	1.75808	499	4	4.0
65	1.90126	499	4	4.0
66	2.05875	499	4	4.0
67	2.23531	499	4	4.0
68	2.43746	499	4	5.0
69	2.67407	499	4	5.0
70	2.95702	499	4	5.0
71	3.30396	499	4	5.0
72	3.75127	499	4	5.0
73	4.00000	499	4	5.0
74	4.00000	499	4	5.0
75	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-15. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 9–12, Reading Sessions 1 & 2/Writing Sessions 2 & 3, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.58345	400	1	5.0	44	-0.32639	474	3	5.0
1	-4.39024	400	1	5.0	45	-0.26360	475	3	5.0
2	-4.19702	400	1	5.0	46	-0.20017	476	3	5.0
3	-4.00381	400	1	5.0	47	-0.13601	478	3	5.0
4	-3.74189	405	1	7.0	48	-0.07104	479	3	5.0
5	-3.52632	410	1	8.0	49	-0.00517	480	3	5.0
6	-3.34083	413	1	8.0	50	0.06169	482	3	5.0
7	-3.17628	417	1	7.0	51	0.12965	483	3	5.0
8	-3.02752	420	1	7.0	52	0.19882	484	3	5.0
9	-2.89137	422	1	7.0	53	0.26930	486	3	5.0
10	-2.76568	425	1	7.0	54	0.34123	487	3	5.0
11	-2.64885	427	1	6.0	55	0.41473	489	4	5.0
12	-2.53964	429	1	6.0	56	0.48996	490	4	5.0
13	-2.43703	431	1	6.0	57	0.56707	492	4	5.0
14	-2.34012	433	1	6.0	58	0.64623	493	4	5.0
15	-2.24820	435	1	6.0	59	0.72764	495	4	5.0
16	-2.16060	437	1	6.0	60	0.81149	497	4	4.0
17	-2.07679	439	1	5.0	61	0.89803	499	4	3.0
18	-1.99629	440	1	5.0	62	0.98752	499	4	3.0
19	-1.91868	442	1	5.0	63	1.08026	499	4	3.0
20	-1.84360	443	1	5.0	64	1.17662	499	4	3.0
21	-1.77075	445	1	5.0	65	1.27703	499	4	3.0
22	-1.69985	446	1	5.0	66	1.38203	499	4	3.0
23	-1.63066	448	1	5.0	67	1.49230	499	4	3.0
24	-1.56296	449	1	5.0	68	1.60877	499	4	3.0
25	-1.49658	450	2	5.0	69	1.73265	499	4	4.0
26	-1.43134	452	2	5.0	70	1.86566	499	4	4.0
27	-1.36709	453	2	5.0	71	2.01027	499	4	4.0
28	-1.30370	454	2	5.0	72	2.17023	499	4	4.0
29	-1.24104	456	2	5.0	73	2.35154	499	4	4.0
30	-1.17900	457	2	5.0	74	2.56461	499	4	5.0
31	-1.11747	458	2	5.0	75	2.82999	499	4	5.0
32	-1.05636	459	2	5.0	76	3.19757	499	4	5.0
33	-0.99558	460	2	5.0	77	3.84925	499	4	5.0
34	-0.93505	462	2	5.0	78	4.00000	499	4	5.0
35	-0.87468	463	2	5.0					
36	-0.81439	463	2	5.0					
37	-0.75411	465	3	5.0					
38	-0.69376	467	3	5.0					
39	-0.63328	468	3	5.0					
40	-0.57260	469	3	5.0					
41	-0.51164	470	3	5.0					
42	-0.45033	471	3	5.0					
43	-0.38861	473	3	5.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-16. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 9–12, Reading Sessions 1 & 2/Writing Sessions 1 & 2, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.53273	400	1	5.0	43	-0.61415	468	3	5.0
1	-4.35527	400	1	5.0	44	-0.55411	469	3	5.0
2	-4.17781	400	1	5.0	45	-0.49348	471	3	5.0
3	-4.00035	400	1	5.0	46	-0.43219	472	3	5.0
4	-3.75018	405	1	7.0	47	-0.37012	473	3	5.0
5	-3.54661	409	1	8.0	48	-0.30719	474	3	5.0
6	-3.37253	413	1	7.0	49	-0.24326	476	3	5.0
7	-3.21912	416	1	7.0	50	-0.17822	477	3	5.0
8	-3.08126	418	1	7.0	51	-0.11191	478	3	5.0
9	-2.95570	421	1	6.0	52	-0.04417	480	3	5.0
10	-2.84017	423	1	6.0	53	0.02517	481	3	5.0
11	-2.73304	425	1	6.0	54	0.09632	482	3	5.0
12	-2.63301	428	1	6.0	55	0.16948	484	3	5.0
13	-2.53903	429	1	6.0	56	0.24492	485	3	5.0
14	-2.45027	431	1	5.0	57	0.32288	487	3	5.0
15	-2.36600	433	1	5.0	58	0.40366	488	3	5.0
16	-2.28562	434	1	5.0	59	0.48759	490	4	5.0
17	-2.20860	436	1	5.0	60	0.57504	492	4	6.0
18	-2.13451	438	1	5.0	61	0.66639	494	4	6.0
19	-2.06296	439	1	5.0	62	0.76211	496	4	5.0
20	-1.99362	440	1	5.0	63	0.86271	498	4	4.0
21	-1.92619	442	1	5.0	64	0.96877	499	4	3.0
22	-1.86043	443	1	5.0	65	1.08101	499	4	3.0
23	-1.79610	444	1	5.0	66	1.20026	499	4	4.0
24	-1.73301	446	1	5.0	67	1.32765	499	4	4.0
25	-1.67099	447	1	5.0	68	1.46466	499	4	4.0
26	-1.60987	448	1	5.0	69	1.61349	499	4	4.0
27	-1.54952	449	1	5.0	70	1.77753	499	4	4.0
28	-1.48981	451	2	5.0	71	1.96240	499	4	4.0
29	-1.43064	452	2	4.0	72	2.17817	499	4	5.0
30	-1.37190	453	2	4.0	73	2.44502	499	4	5.0
31	-1.31350	454	2	4.0	74	2.81175	499	4	5.0
32	-1.25537	455	2	4.0	75	3.45214	499	4	5.0
33	-1.19742	456	2	4.0	76	4.00000	499	4	5.0
34	-1.13958	458	2	4.0					
35	-1.08179	459	2	4.0					
36	-1.02400	460	2	4.0					
37	-0.96613	461	2	4.0					
38	-0.90813	462	2	4.0					
39	-0.84995	463	2	4.0					
40	-0.79152	465	3	5.0					
41	-0.73279	466	3	5.0					
42	-0.67369	467	3	5.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)



**Table L-17. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 9–12, Reading Sessions 2 & 3/Writing Sessions 2 & 3, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.59328	400	1	5.0	44	-0.00092	480	3	5.0
1	-4.36615	400	1	5.0	45	0.06423	482	3	5.0
2	-4.13902	400	1	5.0	46	0.13001	483	3	5.0
3	-3.87399	403	1	7.0	47	0.19651	484	3	5.0
4	-3.60094	408	1	9.0	48	0.26381	486	3	5.0
5	-3.37475	413	1	8.0	49	0.33201	487	3	5.0
6	-3.17805	417	1	8.0	50	0.40120	488	3	5.0
7	-3.00247	420	1	8.0	51	0.47148	490	4	5.0
8	-2.84340	423	1	7.0	52	0.54295	491	4	5.0
9	-2.69792	426	1	7.0	53	0.61570	493	4	5.0
10	-2.56397	429	1	7.0	54	0.68986	494	4	5.0
11	-2.43985	431	1	7.0	55	0.76554	496	4	5.0
12	-2.32419	434	1	6.0	56	0.84287	497	4	5.0
13	-2.21576	436	1	6.0	57	0.92197	499	4	5.0
14	-2.11355	438	1	6.0	58	1.00300	501	5	5.0
15	-2.01669	440	1	6.0	59	1.08613	502	5	6.0
16	-1.92445	442	1	6.0	60	1.17156	504	5	6.0
17	-1.83621	444	1	6.0	61	1.25951	506	5	6.0
18	-1.75143	445	1	5.0	62	1.35028	508	5	6.0
19	-1.66968	447	1	5.0	63	1.44423	510	5	6.0
20	-1.59057	448	1	5.0	64	1.54178	512	5	6.0
21	-1.51379	449	1	5.0	65	1.64352	514	5	6.0
22	-1.43903	452	2	5.0	66	1.75020	516	5	6.0
23	-1.36608	453	2	5.0	67	1.86280	518	5	6.0
24	-1.29471	454	2	5.0	68	1.98265	520	5	6.0
25	-1.22473	456	2	5.0	69	2.11158	523	5	7.0
26	-1.15598	457	2	5.0	70	2.25222	526	5	7.0
27	-1.08831	459	2	5.0	71	2.40847	529	5	7.0
28	-1.02159	460	2	5.0	72	2.58661	533	5	8.0
29	-0.95570	461	2	5.0	73	2.79755	537	5	9.0
30	-0.89051	463	2	5.0	74	3.06296	542	5	9.0
31	-0.82592	463	2	5.0	75	3.43582	550	5	5.0
32	-0.76184	465	3	5.0	76	4.00000	550	5	5.0
33	-0.69816	466	3	5.0	77	4.00000	550	5	5.0
34	-0.63481	468	3	5.0					
35	-0.57169	469	3	5.0					
36	-0.50872	470	3	5.0					
37	-0.44582	472	3	5.0					
38	-0.38291	473	3	5.0					
39	-0.31991	474	3	5.0					
40	-0.25675	475	3	5.0					
41	-0.19334	477	3	5.0					
42	-0.12962	478	3	5.0					
43	-0.06550	479	3	5.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-18. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 9–12, Reading Sessions 2 & 3/Writing Sessions 1 & 2, Spring 2012**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.53357	400	1	5.0	43	-0.30047	474	3	5.0
1	-4.32790	400	1	5.0	44	-0.23624	476	3	5.0
2	-4.12223	400	1	5.0	45	-0.17132	477	3	5.0
3	-3.87561	403	1	7.0	46	-0.10558	478	3	5.0
4	-3.61944	408	1	9.0	47	-0.03890	480	3	5.0
5	-3.40904	412	1	8.0	48	0.02887	481	3	5.0
6	-3.22788	416	1	7.0	49	0.09788	482	3	5.0
7	-3.06762	419	1	7.0	50	0.16828	484	3	5.0
8	-2.92339	422	1	7.0	51	0.24023	485	3	5.0
9	-2.79202	424	1	6.0	52	0.31391	487	3	5.0
10	-2.67125	427	1	6.0	53	0.38949	488	3	5.0
11	-2.55934	429	1	6.0	54	0.46718	490	4	5.0
12	-2.45489	431	1	6.0	55	0.54716	491	4	5.0
13	-2.35674	433	1	6.0	56	0.62964	493	4	5.0
14	-2.26395	435	1	5.0	57	0.71486	495	4	5.0
15	-2.17573	437	1	5.0	58	0.80302	497	4	4.0
16	-2.09140	438	1	5.0	59	0.89440	498	4	4.0
17	-2.01040	440	1	5.0	60	0.98926	499	4	3.0
18	-1.93226	442	1	5.0	61	1.08792	499	4	3.0
19	-1.85656	443	1	5.0	62	1.19075	499	4	3.0
20	-1.78296	445	1	5.0	63	1.29823	499	4	3.0
21	-1.71116	446	1	5.0	64	1.41097	499	4	3.0
22	-1.64092	447	1	5.0	65	1.52983	499	4	4.0
23	-1.57201	449	1	5.0	66	1.65601	499	4	4.0
24	-1.50424	450	2	5.0	67	1.79124	499	4	4.0
25	-1.43747	452	2	5.0	68	1.93810	499	4	4.0
26	-1.37155	453	2	5.0	69	2.10052	499	4	4.0
27	-1.30637	454	2	5.0	70	2.28484	499	4	4.0
28	-1.24183	455	2	5.0	71	2.50198	499	4	5.0
29	-1.17783	457	2	5.0	72	2.77333	499	4	5.0
30	-1.11430	458	2	5.0	73	3.14989	499	4	5.0
31	-1.05116	459	2	5.0	74	3.81413	499	4	5.0
32	-0.98834	461	2	5.0	75	4.00000	499	4	5.0
33	-0.92580	462	2	5.0					
34	-0.86345	463	2	5.0					
35	-0.80125	464	3	5.0					
36	-0.73912	466	3	5.0					
37	-0.67701	467	3	5.0					
38	-0.61485	468	3	5.0					
39	-0.55256	469	3	5.0					
40	-0.49006	471	3	5.0					
41	-0.42727	472	3	5.0					
42	-0.36411	473	3	5.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-19. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span K–2, Level A, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.00000	400	1	5.0	30	-0.58892	468	3	4.0
1	-3.55552	409	1	10.0	31	-0.52361	469	3	4.0
2	-3.12459	417	1	9.0	32	-0.45781	471	3	4.0
3	-2.86258	423	1	7.0	33	-0.39134	472	3	4.0
4	-2.66948	427	1	6.0	34	-0.32401	473	3	4.0
5	-2.51390	430	1	6.0	35	-0.25560	475	3	4.0
6	-2.38177	432	1	5.0	36	-0.18583	476	3	4.0
7	-2.26557	435	1	5.0	37	-0.11438	477	3	4.0
8	-2.16079	437	1	5.0	38	-0.04090	479	3	4.0
9	-2.06450	439	1	5.0	39	0.03509	480	3	4.0
10	-1.97470	440	1	5.0	40	0.11411	482	3	4.0
11	-1.88995	442	1	4.0	41	0.19680	484	3	4.0
12	-1.80920	444	1	4.0	42	0.28397	484	3	5.0
13	-1.73164	445	1	4.0	43	0.37658	487	4	5.0
14	-1.65666	447	1	4.0	44	0.47589	489	4	5.0
15	-1.58377	448	1	4.0	45	0.58349	491	4	5.0
16	-1.51259	450	1	4.0	46	0.70154	494	4	5.0
17	-1.44281	451	1	4.0	47	0.83309	496	4	5.0
18	-1.37418	452	1	4.0	48	0.98269	499	4	3.0
19	-1.30649	454	2	4.0	49	1.15782	499	4	4.0
20	-1.23958	455	2	4.0	50	1.37237	499	4	4.0
21	-1.17331	456	2	4.0	51	1.65746	499	4	5.0
22	-1.10755	458	2	4.0	52	2.11268	499	4	5.0
23	-1.04221	459	2	4.0	53	4.00000	499	4	5.0
24	-0.97719	460	2	4.0					
25	-0.91240	462	2	4.0					
26	-0.84776	463	2	4.0					
27	-0.78319	464	2	4.0					
28	-0.71859	465	2	4.0					
29	-0.65387	467	3	4.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-20. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span K–2, Level B, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.00000	400	1	5.0	9	-1.89791	442	1	5.0
1	-3.38450	412	1	10.0	10	-1.80681	444	1	5.0
2	-2.95625	421	1	9.0	11	-1.72064	445	1	4.0
3	-2.69620	426	1	7.0	12	-1.63845	447	1	4.0
4	-2.50439	430	1	6.0	13	-1.55951	449	1	4.0
5	-2.34945	433	1	6.0	14	-1.48331	450	1	4.0
6	-2.21742	436	1	5.0	15	-1.40942	452	1	4.0
7	-2.10083	438	1	5.0	16	-1.33753	452	1	4.0
8	-1.99528	440	1	5.0	17	-1.26741	454	2	4.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
18	-1.19883	456	2	4.0
19	-1.13164	457	2	4.0
20	-1.06569	458	2	4.0
21	-1.00085	460	2	4.0
22	-0.93700	461	2	4.0
23	-0.87403	462	2	4.0
24	-0.81183	464	2	4.0
25	-0.75031	465	2	4.0
26	-0.68935	466	3	4.0
27	-0.62886	467	3	4.0
28	-0.56873	468	3	4.0
29	-0.50886	470	3	4.0
30	-0.44914	471	3	4.0
31	-0.38947	472	3	4.0
32	-0.32972	473	3	4.0
33	-0.26978	474	3	4.0
34	-0.20952	476	3	4.0
35	-0.14880	477	3	4.0
36	-0.08748	478	3	4.0
37	-0.02541	479	3	4.0
38	0.03760	480	3	4.0
39	0.10173	482	3	4.0
40	0.16719	483	3	4.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
41	0.23422	484	3	4.0
42	0.30309	486	4	4.0
43	0.37410	487	4	4.0
44	0.44762	489	4	4.0
45	0.52407	490	4	4.0
46	0.60395	492	4	4.0
47	0.68786	493	4	4.0
48	0.77657	495	4	5.0
49	0.87102	497	4	5.0
50	0.97245	499	4	5.0
51	1.08250	501	5	5.0
52	1.20340	504	5	5.0
53	1.33839	506	5	6.0
54	1.49236	509	5	6.0
55	1.67327	513	5	7.0
56	1.89566	518	5	8.0
57	2.19137	523	5	9.0
58	2.66057	533	5	10.0
59	4.00000	550	5	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-21. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 3–4, Reading Sessions 1 & 2/Writing Sessions 2 & 3, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.77533	400	1	5.0
1	-4.65615	400	1	5.0
2	-4.53696	400	1	5.0
3	-4.41778	400	1	5.0
4	-4.29860	400	1	4.0
5	-4.17941	400	1	4.0
6	-4.06023	400	1	4.0
7	-3.92166	402	1	5.0
8	-3.77456	405	1	6.0
9	-3.63967	407	1	7.0
10	-3.51461	410	1	6.0
11	-3.39770	412	1	6.0
12	-3.28770	414	1	6.0
13	-3.18364	416	1	6.0
14	-3.08475	418	1	6.0
15	-2.99035	420	1	6.0
16	-2.89990	422	1	6.0
17	-2.81290	424	1	5.0
18	-2.72892	425	1	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
19	-2.64760	427	1	5.0
20	-2.56859	429	1	5.0
21	-2.49162	430	1	5.0
22	-2.41643	431	1	5.0
23	-2.34279	433	2	5.0
24	-2.27049	435	2	5.0
25	-2.19935	436	2	5.0
26	-2.12922	438	2	5.0
27	-2.05993	439	2	5.0
28	-1.99135	440	2	5.0
29	-1.92337	442	2	5.0
30	-1.85586	443	2	5.0
31	-1.78871	444	2	5.0
32	-1.72184	446	2	5.0
33	-1.65513	447	2	5.0
34	-1.58852	448	2	5.0
35	-1.52190	450	2	5.0
36	-1.45521	451	2	5.0
37	-1.38837	452	3	5.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
38	-1.32130	454	3	5.0
39	-1.25393	455	3	5.0
40	-1.18620	456	3	5.0
41	-1.11803	458	3	5.0
42	-1.04934	459	3	5.0
43	-0.98006	461	3	5.0
44	-0.91011	462	3	5.0
45	-0.83940	463	3	5.0
46	-0.76782	465	3	5.0
47	-0.69526	466	3	5.0
48	-0.62160	468	3	5.0
49	-0.54668	469	3	5.0
50	-0.47036	471	3	5.0
51	-0.39244	472	3	5.0
52	-0.31273	474	4	5.0
53	-0.23102	476	4	5.0
54	-0.14706	477	4	5.0
55	-0.06064	479	4	5.0
56	0.02851	481	4	6.0
57	0.12059	483	4	6.0
58	0.21582	485	4	6.0
59	0.31435	487	4	6.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
60	0.41629	489	4	6.0
61	0.52171	491	4	6.0
62	0.63061	493	4	6.0
63	0.74300	495	4	5.0
64	0.85894	497	4	4.0
65	0.97858	499	4	3.0
66	1.10229	499	4	3.0
67	1.23074	499	4	3.0
68	1.36495	499	4	4.0
69	1.50644	499	4	4.0
70	1.65733	499	4	4.0
71	1.82058	499	4	4.0
72	2.00029	499	4	4.0
73	2.20246	499	4	4.0
74	2.43665	499	4	5.0
75	2.72094	499	4	5.0
76	3.09880	499	4	5.0
77	3.73124	499	4	5.0
78	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-22. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 3–4, Reading Sessions 1 & 2/Writing Sessions 1 & 2, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.74050	400	1	5.0
1	-4.63341	400	1	5.0
2	-4.52632	400	1	5.0
3	-4.41922	400	1	4.0
4	-4.31213	400	1	4.0
5	-4.20504	400	1	4.0
6	-4.09794	400	1	4.0
7	-3.98734	400	1	4.0
8	-3.84694	403	1	5.0
9	-3.71876	406	1	6.0
10	-3.60030	408	1	6.0
11	-3.48984	410	1	6.0
12	-3.38609	412	1	6.0
13	-3.28804	414	1	6.0
14	-3.19492	416	1	6.0
15	-3.10607	418	1	5.0
16	-3.02094	420	1	5.0
17	-2.93906	421	1	5.0
18	-2.86003	423	1	5.0
19	-2.78350	424	1	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
20	-2.70916	426	1	5.0
21	-2.63673	427	1	5.0
22	-2.56599	429	1	5.0
23	-2.49671	430	1	5.0
24	-2.42870	431	1	5.0
25	-2.36181	433	2	5.0
26	-2.29588	434	2	5.0
27	-2.23076	435	2	5.0
28	-2.16634	437	2	5.0
29	-2.10250	438	2	5.0
30	-2.03913	439	2	5.0
31	-1.97614	441	2	5.0
32	-1.91342	442	2	5.0
33	-1.85090	443	2	5.0
34	-1.78849	444	2	5.0
35	-1.72611	446	2	5.0
36	-1.66367	447	2	5.0
37	-1.60111	448	2	5.0
38	-1.53833	449	2	5.0
39	-1.47528	451	2	5.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
40	-1.41187	452	3	5.0
41	-1.34802	453	3	5.0
42	-1.28366	454	3	5.0
43	-1.21871	456	3	5.0
44	-1.15308	457	3	5.0
45	-1.08667	458	3	5.0
46	-1.01940	460	3	5.0
47	-0.95115	461	3	5.0
48	-0.88180	463	3	5.0
49	-0.81121	464	3	5.0
50	-0.73924	465	3	5.0
51	-0.66571	467	3	5.0
52	-0.59041	468	3	5.0
53	-0.51311	470	3	5.0
54	-0.43354	472	3	5.0
55	-0.35140	473	3	5.0
56	-0.26634	475	4	5.0
57	-0.17797	477	4	5.0
58	-0.08586	479	4	6.0
59	0.01045	480	4	6.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
60	0.11145	482	4	6.0
61	0.21761	485	4	6.0
62	0.32938	487	4	6.0
63	0.44715	489	4	6.0
64	0.57120	492	4	6.0
65	0.70181	494	4	6.0
66	0.83929	497	4	5.0
67	0.98423	499	4	4.0
68	1.13775	499	4	4.0
69	1.30193	499	4	4.0
70	1.48036	499	4	4.0
71	1.67917	499	4	4.0
72	1.90888	499	4	5.0
73	2.18939	499	4	5.0
74	2.56678	499	4	5.0
75	3.21231	499	4	5.0
76	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-23. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 3–4, Reading Sessions 2 & 3/Writing Sessions 2 & 3, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.72962	400	1	5.0
1	-4.57846	400	1	5.0
2	-4.42731	400	1	5.0
3	-4.27615	400	1	5.0
4	-4.12499	400	1	5.0
5	-3.96439	401	1	5.0
6	-3.77370	405	1	7.0
7	-3.60340	408	1	7.0
8	-3.44869	411	1	7.0
9	-3.30656	414	1	7.0
10	-3.17485	417	1	7.0
11	-3.05194	419	1	6.0
12	-2.93648	421	1	6.0
13	-2.82738	424	1	6.0
14	-2.72371	426	1	6.0
15	-2.62468	428	1	6.0
16	-2.52964	429	1	6.0
17	-2.43803	431	1	6.0
18	-2.34938	433	2	6.0
19	-2.26328	435	2	5.0
20	-2.17940	437	2	5.0
21	-2.09745	438	2	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
22	-2.01716	440	2	5.0
23	-1.93832	441	2	5.0
24	-1.86074	443	2	5.0
25	-1.78426	444	2	5.0
26	-1.70871	446	2	5.0
27	-1.63398	447	2	5.0
28	-1.55993	449	2	5.0
29	-1.48648	450	2	5.0
30	-1.41353	452	3	5.0
31	-1.34098	453	3	5.0
32	-1.26877	455	3	5.0
33	-1.19682	456	3	5.0
34	-1.12505	458	3	5.0
35	-1.05341	459	3	5.0
36	-0.98181	461	3	5.0
37	-0.91018	462	3	5.0
38	-0.83845	463	3	5.0
39	-0.76652	465	3	5.0
40	-0.69429	466	3	5.0
41	-0.62168	468	3	5.0
42	-0.54854	469	3	5.0
43	-0.47477	471	3	5.0

continued

Raw Score	Theta	SS	Performance Level	SEM
44	-0.40023	472	3	5.0
45	-0.32476	473	3	5.0
46	-0.24822	475	4	5.0
47	-0.17044	477	4	5.0
48	-0.09127	478	4	5.0
49	-0.01055	480	4	5.0
50	0.07187	482	4	5.0
51	0.15612	483	4	5.0
52	0.24232	485	4	5.0
53	0.33055	487	4	5.0
54	0.42088	489	4	6.0
55	0.51333	491	4	6.0
56	0.60791	492	4	6.0
57	0.70461	494	4	6.0
58	0.80346	496	4	6.0
59	0.90450	498	4	6.0
60	1.00783	500	5	6.0
61	1.11368	503	5	6.0

Raw Score	Theta	SS	Performance Level	SEM
62	1.22237	505	5	6.0
63	1.33436	507	5	6.0
64	1.45030	509	5	6.0
65	1.57101	512	5	6.0
66	1.69751	514	5	6.0
67	1.83109	517	5	7.0
68	1.97337	520	5	7.0
69	2.12644	523	5	7.0
70	2.29315	526	5	7.0
71	2.47774	530	5	8.0
72	2.68694	534	5	8.0
73	2.93259	539	5	9.0
74	3.23763	545	5	8.0
75	3.65384	550	5	5.0
76	4.00000	550	5	5.0
77	4.00000	550	5	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-24. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 3–4, Reading Sessions 2 & 3/Writing Sessions 1 & 2, Spring & Fall 2011**

Raw Score	Theta	SS	Performance Level	SEM
0	-4.69235	400	1	5.0
1	-4.56012	400	1	5.0
2	-4.42790	400	1	5.0
3	-4.29567	400	1	5.0
4	-4.16344	400	1	4.0
5	-4.03122	400	1	4.0
6	-3.86456	403	1	5.0
7	-3.70466	406	1	7.0
8	-3.55998	409	1	7.0
9	-3.42734	411	1	7.0
10	-3.30449	414	1	6.0
11	-3.18978	416	1	6.0
12	-3.08194	418	1	6.0
13	-2.97990	420	1	6.0
14	-2.88282	422	1	6.0
15	-2.78996	424	1	6.0
16	-2.70074	426	1	5.0
17	-2.61463	428	1	5.0
18	-2.53122	429	1	5.0
19	-2.45012	431	1	5.0
20	-2.37103	433	2	5.0
21	-2.29368	434	2	5.0
22	-2.21782	436	2	5.0
23	-2.14327	437	2	5.0

Raw Score	Theta	SS	Performance Level	SEM
24	-2.06983	439	2	5.0
25	-1.99736	440	2	5.0
26	-1.92570	442	2	5.0
27	-1.85474	443	2	5.0
28	-1.78435	444	2	5.0
29	-1.71444	446	2	5.0
30	-1.64490	447	2	5.0
31	-1.57564	449	2	5.0
32	-1.50658	450	2	5.0
33	-1.43764	451	2	5.0
34	-1.36875	453	3	5.0
35	-1.29982	454	3	5.0
36	-1.23079	456	3	5.0
37	-1.16158	457	3	5.0
38	-1.09211	458	3	5.0
39	-1.02232	460	3	5.0
40	-0.95210	461	3	5.0
41	-0.88138	463	3	5.0
42	-0.81005	464	3	5.0
43	-0.73798	465	3	5.0
44	-0.66507	467	3	5.0
45	-0.59115	468	3	5.0
46	-0.51608	470	3	5.0
47	-0.43966	471	3	5.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
48	-0.36171	473	3	5.0
49	-0.28200	475	4	5.0
50	-0.20031	476	4	5.0
51	-0.11637	478	4	5.0
52	-0.02994	480	4	5.0
53	0.05924	481	4	5.0
54	0.15143	483	4	6.0
55	0.24686	485	4	6.0
56	0.34571	487	4	6.0
57	0.44815	489	4	6.0
58	0.55429	491	4	6.0
59	0.66421	494	4	6.0
60	0.77801	496	4	5.0
61	0.89585	498	4	4.0
62	1.01801	499	4	3.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
63	1.14502	499	4	3.0
64	1.27772	499	4	3.0
65	1.41734	499	4	4.0
66	1.56569	499	4	4.0
67	1.72527	499	4	4.0
68	1.89959	499	4	4.0
69	2.09376	499	4	4.0
70	2.31572	499	4	5.0
71	2.57927	499	4	5.0
72	2.91188	499	4	5.0
73	3.37623	499	4	5.0
74	4.00000	499	4	5.0
75	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-25. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 5–6, Reading Sessions 1 & 2/Writing Sessions 2 & 3, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.67403	400	1	5.0
1	-4.54941	400	1	5.0
2	-4.42479	400	1	5.0
3	-4.30017	400	1	5.0
4	-4.17555	400	1	4.0
5	-4.05093	400	1	4.0
6	-3.90000	402	1	5.0
7	-3.74649	405	1	6.0
8	-3.60778	408	1	7.0
9	-3.48019	410	1	6.0
10	-3.36133	413	1	6.0
11	-3.24949	415	1	6.0
12	-3.14349	417	1	6.0
13	-3.04242	419	1	6.0
14	-2.94561	421	1	6.0
15	-2.85251	423	1	6.0
16	-2.76268	425	1	6.0
17	-2.67572	427	1	5.0
18	-2.59131	428	1	5.0
19	-2.50917	430	1	5.0
20	-2.42904	432	1	5.0
21	-2.35068	433	1	5.0
22	-2.27390	435	1	5.0
23	-2.19850	436	2	5.0
24	-2.12431	438	2	5.0
25	-2.05117	439	2	5.0
26	-1.97895	441	2	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
27	-1.90752	442	2	5.0
28	-1.83676	444	2	5.0
29	-1.76656	445	2	5.0
30	-1.69681	446	2	5.0
31	-1.62744	448	2	5.0
32	-1.55835	449	2	5.0
33	-1.48946	451	2	5.0
34	-1.42070	452	2	5.0
35	-1.35201	453	2	5.0
36	-1.28331	455	2	5.0
37	-1.21454	456	3	5.0
38	-1.14566	458	3	5.0
39	-1.07660	459	3	5.0
40	-1.00730	460	3	5.0
41	-0.93772	462	3	5.0
42	-0.86779	463	3	5.0
43	-0.79745	465	3	5.0
44	-0.72662	466	3	5.0
45	-0.65524	467	3	5.0
46	-0.58320	469	3	5.0
47	-0.51040	470	3	5.0
48	-0.43674	472	3	5.0
49	-0.36207	473	3	5.0
50	-0.28624	475	3	5.0
51	-0.20909	476	3	5.0
52	-0.13044	478	3	5.0
53	-0.05008	480	4	5.0

continued



<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
54	0.03220	481	4	5.0
55	0.11663	483	4	6.0
56	0.20344	485	4	6.0
57	0.29287	487	4	6.0
58	0.38515	488	4	6.0
59	0.48052	490	4	6.0
60	0.57919	492	4	6.0
61	0.68140	494	4	6.0
62	0.78736	497	4	4.0
63	0.89735	499	4	3.0
64	1.01171	499	4	3.0
65	1.13091	499	4	3.0
66	1.25560	499	4	3.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
67	1.38672	499	4	4.0
68	1.52557	499	4	4.0
69	1.67394	499	4	4.0
70	1.83425	499	4	4.0
71	2.00966	499	4	4.0
72	2.20437	499	4	4.0
73	2.42386	499	4	5.0
74	2.67615	499	4	5.0
75	2.97584	499	4	5.0
76	3.35841	499	4	5.0
77	3.95003	499	4	5.0
78	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-26. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 5–6, Reading Sessions 1 & 2/Writing Sessions 1 & 2, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.75470	400	1	5.0
1	-4.65005	400	1	5.0
2	-4.54540	400	1	5.0
3	-4.44075	400	1	4.0
4	-4.33610	400	1	4.0
5	-4.23146	400	1	4.0
6	-4.12681	400	1	4.0
7	-4.02216	400	1	4.0
8	-3.89162	402	1	5.0
9	-3.76515	405	1	6.0
10	-3.64832	407	1	6.0
11	-3.53906	409	1	6.0
12	-3.43587	411	1	6.0
13	-3.33766	413	1	6.0
14	-3.24359	415	1	6.0
15	-3.15302	417	1	5.0
16	-3.06545	419	1	5.0
17	-2.98047	421	1	5.0
18	-2.89776	422	1	5.0
19	-2.81706	424	1	5.0
20	-2.73812	425	1	5.0
21	-2.66076	427	1	5.0
22	-2.58481	429	1	5.0
23	-2.51012	430	1	5.0
24	-2.43655	432	1	5.0
25	-2.36399	433	1	5.0
26	-2.29232	434	1	5.0
27	-2.22143	436	2	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
28	-2.15124	437	2	5.0
29	-2.08165	439	2	5.0
30	-2.01256	440	2	5.0
31	-1.94391	441	2	5.0
32	-1.87561	443	2	5.0
33	-1.80759	444	2	5.0
34	-1.73976	446	2	5.0
35	-1.67206	447	2	5.0
36	-1.60441	448	2	5.0
37	-1.53675	450	2	5.0
38	-1.46900	451	2	5.0
39	-1.40110	452	2	5.0
40	-1.33298	454	2	5.0
41	-1.26456	455	2	5.0
42	-1.19577	457	3	5.0
43	-1.12654	458	3	5.0
44	-1.05678	459	3	5.0
45	-0.98640	461	3	5.0
46	-0.91532	462	3	5.0
47	-0.84342	464	3	5.0
48	-0.77059	465	3	5.0
49	-0.69669	467	3	5.0
50	-0.62159	468	3	5.0
51	-0.54512	470	3	5.0
52	-0.46709	471	3	5.0
53	-0.38730	473	3	5.0
54	-0.30551	474	3	5.0
55	-0.22146	476	3	6.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
56	-0.13485	478	3	6.0
57	-0.04538	480	4	6.0
58	0.04732	482	4	6.0
59	0.14363	484	4	6.0
60	0.24395	486	4	6.0
61	0.34870	488	4	6.0
62	0.45835	490	4	6.0
63	0.57335	492	4	6.0
64	0.69424	495	4	6.0
65	0.82164	497	4	5.0
66	0.95638	499	4	4.0
67	1.09966	499	4	4.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
68	1.25327	499	4	4.0
69	1.41997	499	4	4.0
70	1.60410	499	4	4.0
71	1.81263	499	4	4.0
72	2.05711	499	4	5.0
73	2.35810	499	4	5.0
74	2.75849	499	4	5.0
75	3.39334	499	4	5.0
76	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-27. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 5–6, Reading Sessions 2 & 3/Writing Sessions 2 & 3, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.63298	400	1	5.0
1	-4.46644	400	1	5.0
2	-4.29990	400	1	5.0
3	-4.13336	400	1	5.0
4	-3.95353	401	1	5.0
5	-3.74251	405	1	7.0
6	-3.55870	409	1	8.0
7	-3.39394	412	1	7.0
8	-3.24359	415	1	7.0
9	-3.10477	418	1	7.0
10	-2.97551	421	1	7.0
11	-2.85431	423	1	6.0
12	-2.74002	425	1	6.0
13	-2.63167	428	1	6.0
14	-2.52846	430	1	6.0
15	-2.42970	432	1	6.0
16	-2.33481	434	1	6.0
17	-2.24329	435	1	6.0
18	-2.15473	437	2	6.0
19	-2.06876	439	2	6.0
20	-1.98508	441	2	5.0
21	-1.90343	442	2	5.0
22	-1.82357	444	2	5.0
23	-1.74531	445	2	5.0
24	-1.66846	447	2	5.0
25	-1.59287	449	2	5.0
26	-1.51840	450	2	5.0
27	-1.44493	452	2	5.0
28	-1.37235	453	2	5.0
29	-1.30054	454	2	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
30	-1.22943	455	2	5.0
31	-1.15891	457	3	5.0
32	-1.08890	459	3	5.0
33	-1.01932	460	3	5.0
34	-0.95010	461	3	5.0
35	-0.88114	463	3	5.0
36	-0.81237	464	3	5.0
37	-0.74368	466	3	5.0
38	-0.67500	467	3	5.0
39	-0.60622	468	3	5.0
40	-0.53724	470	3	5.0
41	-0.46794	471	3	5.0
42	-0.39820	473	3	5.0
43	-0.32789	474	3	5.0
44	-0.25687	475	3	5.0
45	-0.18500	477	3	5.0
46	-0.11213	478	3	5.0
47	-0.03810	480	4	5.0
48	0.03725	481	4	5.0
49	0.11408	483	4	5.0
50	0.19254	485	4	5.0
51	0.27279	486	4	5.0
52	0.35497	488	4	5.0
53	0.43921	490	4	5.0
54	0.52563	491	4	6.0
55	0.61435	493	4	6.0
56	0.70547	495	4	6.0
57	0.79909	497	4	6.0
58	0.89536	499	4	6.0
59	0.99442	501	5	6.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
60	1.09652	503	5	6.0
61	1.20196	505	5	6.0
62	1.31117	507	5	6.0
63	1.42475	509	5	6.0
64	1.54343	512	5	6.0
65	1.66817	514	5	7.0
66	1.80015	517	5	7.0
67	1.94082	520	5	7.0
68	2.09192	523	5	7.0
69	2.25554	526	5	8.0
70	2.43429	530	5	8.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
71	2.63174	534	5	8.0
72	2.85341	538	5	9.0
73	3.10903	543	5	8.0
74	3.41751	550	5	5.0
75	3.82005	550	5	5.0
76	4.00000	550	5	5.0
77	4.00000	550	5	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-28. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 5–6, Reading Sessions 2 & 3/Writing Sessions 1 & 2, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.74361	400	1	5.0
1	-4.61091	400	1	5.0
2	-4.47822	400	1	5.0
3	-4.34552	400	1	5.0
4	-4.21282	400	1	4.0
5	-4.08013	400	1	4.0
6	-3.92993	401	1	5.0
7	-3.76711	405	1	6.0
8	-3.61974	408	1	7.0
9	-3.48388	410	1	7.0
10	-3.35696	413	1	6.0
11	-3.23725	415	1	6.0
12	-3.12351	418	1	6.0
13	-3.01483	420	1	6.0
14	-2.91053	422	1	6.0
15	-2.81006	424	1	6.0
16	-2.71298	426	1	6.0
17	-2.61892	428	1	6.0
18	-2.52757	430	1	6.0
19	-2.43866	431	1	6.0
20	-2.35195	433	1	6.0
21	-2.26723	435	1	6.0
22	-2.18432	437	2	5.0
23	-2.10306	438	2	5.0
24	-2.02328	440	2	5.0
25	-1.94485	441	2	5.0
26	-1.86764	443	2	5.0
27	-1.79154	445	2	5.0
28	-1.71643	446	2	5.0
29	-1.64220	448	2	5.0
30	-1.56876	449	2	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
31	-1.49602	450	2	5.0
32	-1.42388	452	2	5.0
33	-1.35224	453	2	5.0
34	-1.28104	455	2	5.0
35	-1.21016	456	3	5.0
36	-1.13954	458	3	5.0
37	-1.06907	459	3	5.0
38	-0.99867	461	3	5.0
39	-0.92822	462	3	5.0
40	-0.85764	463	3	5.0
41	-0.78679	465	3	5.0
42	-0.71557	466	3	5.0
43	-0.64385	468	3	5.0
44	-0.57147	469	3	5.0
45	-0.49830	471	3	5.0
46	-0.42417	472	3	5.0
47	-0.34890	474	3	5.0
48	-0.27231	475	3	5.0
49	-0.19419	477	3	5.0
50	-0.11434	478	3	5.0
51	-0.03253	480	4	5.0
52	0.05148	482	4	5.0
53	0.13791	483	4	6.0
54	0.22701	485	4	6.0
55	0.31901	487	4	6.0
56	0.41415	489	4	6.0
57	0.51262	491	4	6.0
58	0.61468	493	4	6.0
59	0.72053	495	4	5.0
60	0.83048	497	4	4.0
61	0.94488	499	4	3.0

continued

Raw Score	Theta	SS	Performance Level	SEM
62	1.06424	499	4	3.0
63	1.18927	499	4	4.0
64	1.32103	499	4	4.0
65	1.46098	499	4	4.0
66	1.61114	499	4	4.0
67	1.77436	499	4	4.0
68	1.95453	499	4	4.0
69	2.15713	499	4	4.0

Raw Score	Theta	SS	Performance Level	SEM
70	2.39015	499	4	5.0
71	2.66643	499	4	5.0
72	3.00986	499	4	5.0
73	3.47233	499	4	5.0
74	4.00000	499	4	5.0
75	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-29. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 7–8, Reading Sessions 1 & 2/Writing Sessions 2 & 3, Spring & Fall 2011**

Raw Score	Theta	SS	Performance Level	SEM
0	-4.64143	400	1	5.0
1	-4.48486	400	1	5.0
2	-4.32830	400	1	5.0
3	-4.17173	400	1	5.0
4	-4.01517	400	1	5.0
5	-3.80474	404	1	6.0
6	-3.62020	408	1	8.0
7	-3.45839	411	1	7.0
8	-3.31293	414	1	7.0
9	-3.17988	416	1	7.0
10	-3.05667	419	1	6.0
11	-2.94150	421	1	6.0
12	-2.83306	423	1	6.0
13	-2.73036	425	1	6.0
14	-2.63263	427	1	6.0
15	-2.53919	429	1	6.0
16	-2.44952	431	1	6.0
17	-2.36314	433	1	6.0
18	-2.27965	435	1	5.0
19	-2.19869	436	1	5.0
20	-2.11995	438	1	5.0
21	-2.04316	439	1	5.0
22	-1.96807	441	1	5.0
23	-1.89445	442	1	5.0
24	-1.82212	444	2	5.0
25	-1.75090	445	2	5.0
26	-1.68064	447	2	5.0
27	-1.61119	448	2	5.0
28	-1.54243	449	2	5.0
29	-1.47424	451	2	5.0
30	-1.40652	452	2	5.0
31	-1.33917	453	2	5.0
32	-1.27210	455	2	5.0
33	-1.20523	456	2	5.0

Raw Score	Theta	SS	Performance Level	SEM
34	-1.13847	457	2	5.0
35	-1.07175	459	2	5.0
36	-1.00499	460	2	5.0
37	-0.93812	461	2	5.0
38	-0.87106	463	2	5.0
39	-0.80374	464	3	5.0
40	-0.73607	466	3	5.0
41	-0.66799	467	3	5.0
42	-0.59939	468	3	5.0
43	-0.53021	470	3	5.0
44	-0.46034	471	3	5.0
45	-0.38970	472	3	5.0
46	-0.31817	474	3	5.0
47	-0.24565	475	3	5.0
48	-0.17203	477	3	5.0
49	-0.09719	478	3	5.0
50	-0.02099	480	3	5.0
51	0.05668	481	3	5.0
52	0.13598	483	3	5.0
53	0.21702	485	3	6.0
54	0.29995	486	4	6.0
55	0.38492	488	4	6.0
56	0.47204	490	4	6.0
57	0.56145	492	4	6.0
58	0.65328	493	4	6.0
59	0.74764	495	4	5.0
60	0.84467	497	4	4.0
61	0.94453	499	4	3.0
62	1.04741	499	4	3.0
63	1.15359	499	4	3.0
64	1.26345	499	4	3.0
65	1.37748	499	4	3.0
66	1.49641	499	4	4.0
67	1.62120	499	4	4.0

continued

Raw Score	Theta	SS	Performance Level	SEM
68	1.75314	499	4	4.0
69	1.89398	499	4	4.0
70	2.04614	499	4	4.0
71	2.21293	499	4	4.0
72	2.39919	499	4	4.0
73	2.61236	499	4	5.0
74	2.86495	499	4	5.0

Raw Score	Theta	SS	Performance Level	SEM
75	3.18111	499	4	5.0
76	3.61786	499	4	5.0
77	4.00000	499	4	5.0
78	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-30. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 7–8, Reading Sessions 1 & 2/Writing Sessions 1 & 2, Spring & Fall 2011**

Raw Score	Theta	SS	Performance Level	SEM
0	-4.61740	400	1	5.0
1	-4.47884	400	1	5.0
2	-4.34028	400	1	5.0
3	-4.20172	400	1	5.0
4	-4.06317	400	1	5.0
5	-3.89018	402	1	5.0
6	-3.71266	406	1	7.0
7	-3.55793	409	1	7.0
8	-3.41959	412	1	7.0
9	-3.29366	414	1	6.0
10	-3.17746	417	1	6.0
11	-3.06915	419	1	6.0
12	-2.96738	421	1	6.0
13	-2.87110	423	1	6.0
14	-2.77953	425	1	5.0
15	-2.69202	426	1	5.0
16	-2.60801	428	1	5.0
17	-2.52705	430	1	5.0
18	-2.44875	431	1	5.0
19	-2.37277	433	1	5.0
20	-2.29880	434	1	5.0
21	-2.22660	436	1	5.0
22	-2.15592	437	1	5.0
23	-2.08656	438	1	5.0
24	-2.01835	440	1	5.0
25	-1.95111	441	1	5.0
26	-1.88470	442	1	5.0
27	-1.81899	444	2	5.0
28	-1.75387	445	2	5.0
29	-1.68923	446	2	5.0
30	-1.62498	448	2	5.0
31	-1.56102	449	2	5.0
32	-1.49727	450	2	5.0
33	-1.43366	452	2	5.0
34	-1.37011	453	2	5.0

Raw Score	Theta	SS	Performance Level	SEM
35	-1.30655	454	2	5.0
36	-1.24291	455	2	5.0
37	-1.17911	457	2	5.0
38	-1.11509	458	2	5.0
39	-1.05077	459	2	5.0
40	-0.98606	461	2	5.0
41	-0.92090	462	2	5.0
42	-0.85520	463	2	5.0
43	-0.78887	464	3	5.0
44	-0.72181	466	3	5.0
45	-0.65393	467	3	5.0
46	-0.58511	469	3	5.0
47	-0.51524	470	3	5.0
48	-0.44419	471	3	5.0
49	-0.37183	473	3	5.0
50	-0.29799	474	3	5.0
51	-0.22251	476	3	5.0
52	-0.14520	477	3	5.0
53	-0.06587	479	3	5.0
54	0.01571	481	3	5.0
55	0.09978	482	3	6.0
56	0.18663	484	3	6.0
57	0.27652	486	4	6.0
58	0.36976	488	4	6.0
59	0.46669	490	4	6.0
60	0.56761	492	4	6.0
61	0.67288	494	4	6.0
62	0.78285	496	4	5.0
63	0.89788	498	4	4.0
64	1.01843	499	4	4.0
65	1.14507	499	4	4.0
66	1.27862	499	4	4.0
67	1.42031	499	4	4.0
68	1.57199	499	4	4.0
69	1.73645	499	4	4.0

continued

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
70	1.91794	499	4	4.0
71	2.12311	499	4	5.0
72	2.36279	499	4	5.0
73	2.65688	499	4	5.0
74	3.05135	499	4	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
75	3.70988	499	4	5.0
76	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-31. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 7–8, Reading Sessions 2 & 3/Writing Sessions 2 & 3, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.62301	400	1	5.0
1	-4.42413	400	1	5.0
2	-4.22526	400	1	5.0
3	-4.02639	400	1	5.0
4	-3.76422	405	1	7.0
5	-3.54003	409	1	8.0
6	-3.34789	413	1	8.0
7	-3.17761	417	1	7.0
8	-3.02355	420	1	7.0
9	-2.88225	422	1	7.0
10	-2.75139	425	1	7.0
11	-2.62927	428	1	6.0
12	-2.51459	430	1	6.0
13	-2.40625	432	1	6.0
14	-2.30336	434	1	6.0
15	-2.20517	436	1	6.0
16	-2.11102	438	1	6.0
17	-2.02038	440	1	6.0
18	-1.93277	442	1	6.0
19	-1.84779	443	2	6.0
20	-1.76511	445	2	5.0
21	-1.68443	446	2	5.0
22	-1.60551	448	2	5.0
23	-1.52812	450	2	5.0
24	-1.45209	451	2	5.0
25	-1.37725	453	2	5.0
26	-1.30345	454	2	5.0
27	-1.23057	456	2	5.0
28	-1.15848	457	2	5.0
29	-1.08707	458	2	5.0
30	-1.01623	460	2	5.0
31	-0.94588	461	2	5.0
32	-0.87590	463	2	5.0
33	-0.80621	464	3	5.0
34	-0.73672	466	3	5.0
35	-0.66733	467	3	5.0

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
36	-0.59794	468	3	5.0
37	-0.52847	470	3	5.0
38	-0.45882	471	3	5.0
39	-0.38888	473	3	5.0
40	-0.31857	474	3	5.0
41	-0.24778	475	3	5.0
42	-0.17640	477	3	5.0
43	-0.10433	478	3	5.0
44	-0.03146	480	3	5.0
45	0.04232	481	3	5.0
46	0.11711	483	3	5.0
47	0.19303	484	3	5.0
48	0.27018	486	4	5.0
49	0.34868	487	4	5.0
50	0.42861	489	4	6.0
51	0.51010	491	4	6.0
52	0.59324	492	4	6.0
53	0.67811	494	4	6.0
54	0.76484	496	4	6.0
55	0.85354	497	4	6.0
56	0.94433	499	4	6.0
57	1.03737	501	5	6.0
58	1.13288	503	5	6.0
59	1.23111	505	5	6.0
60	1.33241	507	5	6.0
61	1.43723	509	5	6.0
62	1.54613	511	5	6.0
63	1.65985	514	5	6.0
64	1.77935	516	5	7.0
65	1.90581	519	5	7.0
66	2.04077	521	5	7.0
67	2.18623	524	5	7.0
68	2.34483	527	5	8.0
69	2.52012	531	5	8.0
70	2.71711	535	5	9.0
71	2.94317	539	5	9.0

continued

Raw Score	Theta	SS	Performance Level	SEM
72	3.20974	545	5	8.0
73	3.53553	550	5	5.0
74	3.95269	550	5	5.0
75	4.00000	550	5	5.0

Raw Score	Theta	SS	Performance Level	SEM
76	4.00000	550	5	5.0
77	4.00000	550	5	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-32. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 7–8, Reading Sessions 2 & 3/Writing Sessions 1 & 2, Spring & Fall 2011**

Raw Score	Theta	SS	Performance Level	SEM
0	-4.59602	400	1	5.0
1	-4.42532	400	1	5.0
2	-4.25462	400	1	5.0
3	-4.08393	400	1	5.0
4	-3.87316	403	1	6.0
5	-3.65954	407	1	8.0
6	-3.47817	410	1	7.0
7	-3.31863	414	1	7.0
8	-3.17499	417	1	7.0
9	-3.04359	419	1	6.0
10	-2.92196	422	1	6.0
11	-2.80836	424	1	6.0
12	-2.70147	426	1	6.0
13	-2.60025	428	1	6.0
14	-2.50387	430	1	6.0
15	-2.41160	432	1	6.0
16	-2.32288	434	1	5.0
17	-2.23720	435	1	5.0
18	-2.15413	437	1	5.0
19	-2.07332	439	1	5.0
20	-1.99446	440	1	5.0
21	-1.91729	442	1	5.0
22	-1.84158	443	2	5.0
23	-1.76714	445	2	5.0
24	-1.69381	446	2	5.0
25	-1.62144	448	2	5.0
26	-1.54990	449	2	5.0
27	-1.47910	451	2	5.0
28	-1.40892	452	2	5.0
29	-1.33926	453	2	5.0
30	-1.27005	455	2	5.0
31	-1.20120	456	2	5.0
32	-1.13262	458	2	5.0
33	-1.06423	459	2	5.0
34	-0.99594	460	2	5.0
35	-0.92768	462	2	5.0
36	-0.85935	463	2	5.0
37	-0.79087	464	3	5.0
38	-0.72214	466	3	5.0

Raw Score	Theta	SS	Performance Level	SEM
39	-0.65307	467	3	5.0
40	-0.58355	469	3	5.0
41	-0.51349	470	3	5.0
42	-0.44276	471	3	5.0
43	-0.37126	473	3	5.0
44	-0.29884	474	3	5.0
45	-0.22539	476	3	5.0
46	-0.15076	477	3	5.0
47	-0.07478	479	3	5.0
48	0.00270	480	3	5.0
49	0.08185	482	3	5.0
50	0.16287	484	3	6.0
51	0.24594	485	3	6.0
52	0.33126	487	4	6.0
53	0.41905	489	4	6.0
54	0.50952	491	4	6.0
55	0.60288	492	4	6.0
56	0.69936	494	4	6.0
57	0.79919	496	4	5.0
58	0.90263	498	4	4.0
59	1.00998	499	4	3.0
60	1.12163	499	4	3.0
61	1.23809	499	4	4.0
62	1.36007	499	4	4.0
63	1.48854	499	4	4.0
64	1.62489	499	4	4.0
65	1.77101	499	4	4.0
66	1.92956	499	4	4.0
67	2.10421	499	4	4.0
68	2.30020	499	4	5.0
69	2.52528	499	4	5.0
70	2.79179	499	4	5.0
71	3.12158	499	4	5.0
72	3.55609	499	4	5.0
73	4.00000	499	4	5.0
74	4.00000	499	4	5.0
75	4.00000	499	4	5.0

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-33. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 9–12, Reading Sessions 1 & 2/Writing Sessions 2 & 3, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.68044	400	1	5.0	44	-0.33326	474	3	5.0
1	-4.50426	400	1	5.0	45	-0.26882	475	3	5.0
2	-4.32808	400	1	5.0	46	-0.20375	476	3	5.0
3	-4.15190	400	1	5.0	47	-0.13796	478	3	5.0
4	-3.96492	401	1	5.0	48	-0.07135	479	3	5.0
5	-3.73687	405	1	7.0	49	-0.00384	480	3	5.0
6	-3.54255	409	1	8.0	50	0.06468	482	3	5.0
7	-3.37080	413	1	8.0	51	0.13432	483	3	5.0
8	-3.21540	416	1	7.0	52	0.20517	485	3	5.0
9	-3.07256	419	1	7.0	53	0.27735	486	3	5.0
10	-2.93986	421	1	7.0	54	0.35097	488	3	5.0
11	-2.81564	424	1	7.0	55	0.42614	489	4	5.0
12	-2.69867	426	1	6.0	56	0.50298	491	4	5.0
13	-2.58801	428	1	6.0	57	0.58160	492	4	5.0
14	-2.48289	431	1	6.0	58	0.66213	494	4	5.0
15	-2.38268	433	1	6.0	59	0.74469	495	4	5.0
16	-2.28682	434	1	6.0	60	0.82943	497	4	4.0
17	-2.19486	436	1	6.0	61	0.91651	499	4	3.0
18	-2.10637	438	1	6.0	62	1.00608	499	4	3.0
19	-2.02101	440	1	5.0	63	1.09836	499	4	3.0
20	-1.93848	441	1	5.0	64	1.19362	499	4	3.0
21	-1.85849	443	1	5.0	65	1.29215	499	4	3.0
22	-1.78080	445	1	5.0	66	1.39440	499	4	3.0
23	-1.70521	446	1	5.0	67	1.50092	499	4	3.0
24	-1.63149	448	1	5.0	68	1.61251	499	4	3.0
25	-1.55947	449	1	5.0	69	1.73026	499	4	3.0
26	-1.48897	451	2	5.0	70	1.85580	499	4	3.0
27	-1.41984	452	2	5.0	71	1.99148	499	4	4.0
28	-1.35193	453	2	5.0	72	2.14096	499	4	4.0
29	-1.28508	455	2	5.0	73	2.31018	499	4	4.0
30	-1.21918	456	2	5.0	74	2.50944	499	4	4.0
31	-1.15408	457	2	5.0	75	2.75887	499	4	5.0
32	-1.08968	459	2	5.0	76	3.10604	499	4	5.0
33	-1.02585	460	2	5.0	77	3.71462	499	4	5.0
34	-0.96249	461	2	5.0	78	4.00000	499	4	5.0
35	-0.89948	462	2	5.0					
36	-0.83675	463	2	5.0					
37	-0.77417	465	3	5.0					
38	-0.71167	466	3	5.0					
39	-0.64916	467	3	5.0					
40	-0.58653	469	3	5.0					
41	-0.52372	470	3	5.0					
42	-0.46063	471	3	5.0					
43	-0.39717	472	3	5.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)



**Table L-34. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 9–12, Reading Sessions 1 & 2/Writing Sessions 1 & 2, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.62071	400	1	5.0	43	-0.56108	469	3	5.0
1	-4.46055	400	1	5.0	44	-0.49620	470	3	5.0
2	-4.30038	400	1	5.0	45	-0.43084	472	3	5.0
3	-4.14021	400	1	5.0	46	-0.36494	473	3	5.0
4	-3.97032	401	1	5.0	47	-0.29842	474	3	5.0
5	-3.75669	405	1	7.0	48	-0.23118	476	3	5.0
6	-3.57483	409	1	7.0	49	-0.16311	477	3	5.0
7	-3.41448	412	1	7.0	50	-0.09412	479	3	5.0
8	-3.26977	415	1	7.0	51	-0.02406	480	3	5.0
9	-3.13710	417	1	6.0	52	0.04721	481	3	5.0
10	-3.01406	420	1	6.0	53	0.11984	483	3	5.0
11	-2.89899	422	1	6.0	54	0.19404	484	3	5.0
12	-2.79068	424	1	6.0	55	0.26998	486	3	5.0
13	-2.68819	426	1	6.0	56	0.34791	487	3	5.0
14	-2.59074	428	1	6.0	57	0.42805	489	4	5.0
15	-2.49773	430	1	5.0	58	0.51070	491	4	5.0
16	-2.40861	432	1	5.0	59	0.59614	492	4	5.0
17	-2.32292	434	1	5.0	60	0.68469	494	4	5.0
18	-2.24027	435	1	5.0	61	0.77672	496	4	4.0
19	-2.16031	437	1	5.0	62	0.87261	498	4	4.0
20	-2.08274	439	1	5.0	63	0.97279	499	4	3.0
21	-2.00727	440	1	5.0	64	1.07776	499	4	3.0
22	-1.93367	442	1	5.0	65	1.18809	499	4	3.0
23	-1.86172	443	1	5.0	66	1.30451	499	4	3.0
24	-1.79123	444	1	5.0	67	1.42800	499	4	3.0
25	-1.72201	446	1	5.0	68	1.55992	499	4	3.0
26	-1.65392	447	1	5.0	69	1.70240	499	4	4.0
27	-1.58679	449	1	5.0	70	1.85871	499	4	4.0
28	-1.52049	449	1	5.0	71	2.03442	499	4	4.0
29	-1.45492	451	2	5.0	72	2.23932	499	4	4.0
30	-1.38994	453	2	5.0	73	2.49285	499	4	5.0
31	-1.32545	454	2	5.0	74	2.84071	499	4	5.0
32	-1.26136	455	2	5.0	75	3.43855	499	4	5.0
33	-1.19758	456	2	5.0	76	4.00000	499	4	5.0
34	-1.13403	458	2	5.0					
35	-1.07063	459	2	5.0					
36	-1.00731	460	2	5.0					
37	-0.94400	461	2	5.0					
38	-0.88065	463	2	5.0					
39	-0.81718	463	2	5.0					
40	-0.75355	465	3	5.0					
41	-0.68969	467	3	5.0					
42	-0.62556	468	3	5.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-35. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 9–12, Reading Sessions 2 & 3/Writing Sessions 2 & 3, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.63252	400	1	5.0	44	-0.00738	480	3	5.0
1	-4.41614	400	1	5.0	45	0.05734	482	3	5.0
2	-4.19975	400	1	5.0	46	0.12274	483	3	5.0
3	-3.97550	400	1	5.0	47	0.18890	484	3	5.0
4	-3.69643	406	1	8.0	48	0.25592	486	3	5.0
5	-3.46706	411	1	8.0	49	0.32388	487	3	5.0
6	-3.26808	415	1	8.0	50	0.39287	488	3	5.0
7	-3.09006	418	1	8.0	51	0.46298	490	4	5.0
8	-2.92787	422	1	7.0	52	0.53430	491	4	5.0
9	-2.77840	425	1	7.0	53	0.60693	493	4	5.0
10	-2.63957	427	1	7.0	54	0.68096	494	4	5.0
11	-2.50986	430	1	7.0	55	0.75649	496	4	5.0
12	-2.38807	432	1	7.0	56	0.83363	497	4	5.0
13	-2.27322	435	1	6.0	57	0.91249	499	4	5.0
14	-2.16449	437	1	6.0	58	0.99320	500	5	5.0
15	-2.06121	439	1	6.0	59	1.07591	502	5	5.0
16	-1.96280	441	1	6.0	60	1.16079	504	5	5.0
17	-1.86876	443	1	6.0	61	1.24806	506	5	5.0
18	-1.77866	445	1	6.0	62	1.33797	507	5	6.0
19	-1.69211	446	1	6.0	63	1.43086	509	5	6.0
20	-1.60876	448	1	5.0	64	1.52717	511	5	6.0
21	-1.52828	449	1	5.0	65	1.62746	513	5	6.0
22	-1.45038	451	2	5.0	66	1.73250	515	5	6.0
23	-1.37480	453	2	5.0	67	1.84336	518	5	6.0
24	-1.30127	454	2	5.0	68	1.96148	520	5	6.0
25	-1.22956	456	2	5.0	69	2.08895	523	5	6.0
26	-1.15947	457	2	5.0	70	2.22881	525	5	7.0
27	-1.09080	459	2	5.0	71	2.38562	528	5	7.0
28	-1.02337	460	2	5.0	72	2.56665	532	5	8.0
29	-0.95702	461	2	5.0	73	2.78422	537	5	9.0
30	-0.89158	463	2	5.0	74	3.06127	542	5	9.0
31	-0.82693	463	2	5.0	75	3.44795	550	5	5.0
32	-0.76292	465	3	5.0	76	4.00000	550	5	5.0
33	-0.69945	466	3	5.0	77	4.00000	550	5	5.0
34	-0.63640	468	3	5.0					
35	-0.57365	469	3	5.0					
36	-0.51112	470	3	5.0					
37	-0.44870	471	3	5.0					
38	-0.38630	473	3	5.0					
39	-0.32383	474	3	5.0					
40	-0.26120	475	3	5.0					
41	-0.19833	476	3	5.0					
42	-0.13513	478	3	5.0					
43	-0.07150	479	3	5.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)

**Table L-36. 2011-12 MEPA: Composite Raw Score to Scaled Score Correspondence  
Grade Span 9–12, Reading Sessions 2 & 3/Writing Sessions 1 & 2, Spring & Fall 2011**

<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>	<i>Raw Score</i>	<i>Theta</i>	<i>SS</i>	<i>Performance Level</i>	<i>SEM</i>
0	-4.56590	400	1	5.0	43	-0.22455	476	3	5.0
1	-4.37318	400	1	5.0	44	-0.15911	477	3	5.0
2	-4.18046	400	1	5.0	45	-0.09317	479	3	5.0
3	-3.98132	400	1	5.0	46	-0.02665	480	3	5.0
4	-3.72358	406	1	8.0	47	0.04060	481	3	5.0
5	-3.51196	410	1	8.0	48	0.10869	483	3	5.0
6	-3.32901	414	1	7.0	49	0.17778	484	3	5.0
7	-3.16592	417	1	7.0	50	0.24800	485	3	5.0
8	-3.01768	420	1	7.0	51	0.31952	487	3	5.0
9	-2.88119	423	1	7.0	52	0.39252	488	3	5.0
10	-2.75435	425	1	6.0	53	0.46719	490	4	5.0
11	-2.63560	427	1	6.0	54	0.54371	491	4	5.0
12	-2.52377	430	1	6.0	55	0.62230	493	4	5.0
13	-2.41790	432	1	6.0	56	0.70318	495	4	5.0
14	-2.31721	434	1	6.0	57	0.78660	496	4	4.0
15	-2.22102	436	1	6.0	58	0.87280	498	4	3.0
16	-2.12878	438	1	5.0	59	0.96208	499	4	3.0
17	-2.04001	439	1	5.0	60	1.05473	499	4	3.0
18	-1.95431	441	1	5.0	61	1.15110	499	4	3.0
19	-1.87132	443	1	5.0	62	1.25163	499	4	3.0
20	-1.79074	444	1	5.0	63	1.35684	499	4	3.0
21	-1.71229	446	1	5.0	64	1.46741	499	4	3.0
22	-1.63575	448	1	5.0	65	1.58430	499	4	3.0
23	-1.56089	449	1	5.0	66	1.70884	499	4	3.0
24	-1.48753	451	2	5.0	67	1.84304	499	4	4.0
25	-1.41551	452	2	5.0	68	1.98983	499	4	4.0
26	-1.34467	453	2	5.0	69	2.15384	499	4	4.0
27	-1.27488	455	2	5.0	70	2.34249	499	4	4.0
28	-1.20601	456	2	5.0	71	2.56855	499	4	5.0
29	-1.13796	458	2	5.0	72	2.85589	499	4	5.0
30	-1.07062	459	2	5.0	73	3.25570	499	4	5.0
31	-1.00391	460	2	5.0	74	3.91842	499	4	5.0
32	-0.93774	462	2	5.0	75	4.00000	499	4	5.0
33	-0.87202	463	2	5.0					
34	-0.80670	463	2	5.0					
35	-0.74169	466	3	5.0					
36	-0.67693	467	3	5.0					
37	-0.61235	468	3	5.0					
38	-0.54788	469	3	5.0					
39	-0.48345	471	3	5.0					
40	-0.41898	472	3	5.0					
41	-0.35440	473	3	5.0					
42	-0.28962	475	3	5.0					

SS = scaled score; SEM = standard error of measurement (rounded to the nearest 0.5)