Appendix 3_9b Extended Assessment Reading Middle Factor Analysis

Oregon 2008 Extended Assessment

Middle Grade Band READING Task Factor Analysis

Math Items Across all Tasks
N of Cases = 1430
N of Items = 50

Inter-item Correlations

Summary Item Statistics

	Mean	Min	Max	Range	Maxi / Min	Var	N Items
Item Means	.870	.290	1.313	1.023	4.524	.076	50
Item Variances	.775	.299	.996	.697	3.333	.041	50
Inter-Item Correlations	.201	-.031	.427	.458	-13.664	.006	50

Alpha = .973 Standardized item alpha = .973

KMO and Bartlett's Test

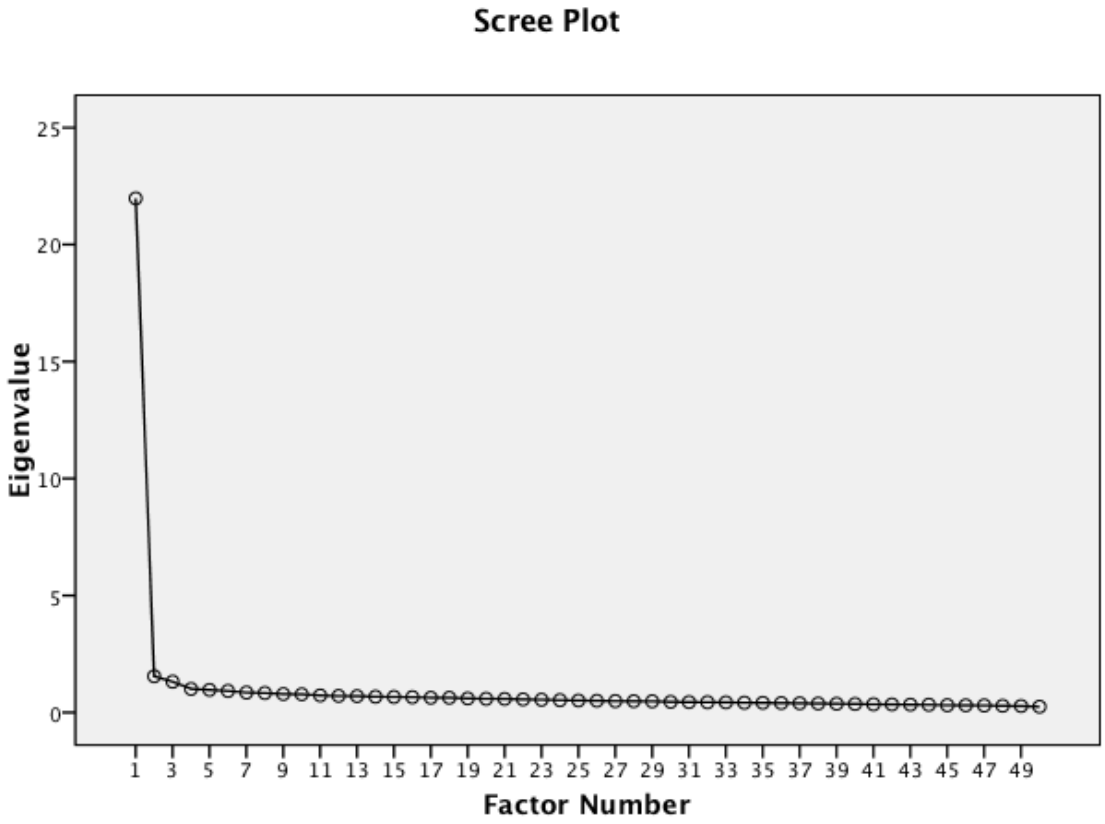
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.987
Bartlett's Test of Sphericity	Approx. Chi-Square	40309.258
	df	1225
	Sig.	.000

Factor Analysis

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	21.976	43.952	43.952	21.462	42.924	42.924	6.768	13.537	13.537
2	1.552	3.103	47.056	1.100	2.200	45.124	6.652	13.305	26.841
3	1.318	2.635	49.691	.849	1.698	46.822	5.903	11.806	38.647
4	1.011	2.022	51.713	.391	.782	47.604	4.478	8.957	47.604

Extraction Method: Maximum Likelihood.



Goodness-of-fit Test

Chi-Square	df	Sig.
2412.823	1031	.000

Difference Between Model Fit for 1 Factor and Multiple Factor Models

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 chisq1  chisq2 chidiff  df1  df2 dfdiff    prob
5054.25 2412.28 2641.97 1175  985   190      .00
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Rotated Factor Matrix[a]

	Factor			
	1	2	3	4
t2r01	.279	.263	.267	.273
t2r02	.318	.284	.328	.246
t2r03	.405	.233	.377	.463
t2r04	.312	.326	.243	.327
t2r05	.311	.255	.360	.305
t3r01	.623	.236	.285	.248
t3r02	.637	.268	.296	.205
t3r03	.708	.249	.220	.288
t3r04	.620	.218	.194	.264
t3r05	.670	.254	.218	.184
t4r01	.539	.306	.366	.178
t4r02	.603	.297	.269	.203
t4r03	.599	.360	.270	.185
t4r04	.289	.300	.139	.122
t4r05	.485	.329	.332	.334
t5r01	.323	.338	.375	.215
t5r02	.226	.329	.286	.254
t5r03	.267	.645	.254	.158
t5r04	.230	.681	.235	.162
t5r05	.225	.671	.196	.131
t6r01	.304	.279	.511	.249
t6r02	.281	.342	.437	.289
t6r03	.350	.598	.292	.268
t6r04	.322	.327	.311	.304
t6r05	.172	.345	.285	.144
t7r01	.308	.279	.651	.184
t7r02	.195	.193	.314	.164
t7r03	.259	.349	.414	.316
t7r04	.198	.321	.381	.260
t7r05	.212	.339	.327	.288

t8r01	.327	.263	.382	.382
t8r02	.271	.235	.409	.363
t8r03	.316	.292	.364	.520
t8r04	.330	.476	.239	.469
t8r05	.281	.369	.327	.206
t9r01	.241	.292	.587	.259
t9r02	.355	.254	.330	.470
t9r03	.383	.243	.367	.436
t9r04	.236	.249	.330	.441
t9r05	.276	.328	.265	.355
t10r01	.341	.312	.489	.247
t10r02	.309	.238	.464	.441
t10r03	.258	.620	.210	.288
t10r04	.214	.350	.390	.225
t10r05	.323	.325	.458	.306
t11r01	.289	.406	.242	.353
t11r02	.360	.470	.358	.417
t11r03	.163	.450	.209	.176
t11r04	.245	.331	.292	.322
t11r05	.267	.514	.291	.242

Extraction Method: Maximum Likelihood.
Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 8 iterations.

Task Level Factor Analysis

Descriptive Statistics

	Mean	Std. Deviation	Analysis N
t2tot	7.62	2.822	1457
t3tot	7.24	3.491	1457
t4tot	6.79	3.196	1457
t5tot	6.32	2.854	1457
t6tot	6.76	2.791	1457
t7tot	6.89	2.890	1457
t8tot	7.18	2.900	1457
t9tot	7.56	2.936	1457
t10tot	7.07	3.008	1457
t11tot	6.49	2.849	1457

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.968
Bartlett's Test of Sphericity	Approx. Chi-Square	15321.499
	df	45
	Sig.	.000

Communalities

	Initial	Extraction
t2tot	.684	.701
t3tot	.711	.677
t4tot	.747	.725
t5tot	.678	.688
t6tot	.755	.777
t7tot	.699	.712
t8tot	.787	.810
t9tot	.771	.789

t10tot	.770	.794
t11tot	.726	.743

Extraction Method:
Maximum Likelihood.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	7.674	76.738	76.738	7.417	74.172	74.172
2	.434	4.343	81.081			
3	.335	3.350	84.432			
4	.299	2.988	87.420			
5	.278	2.779	90.198			
6	.219	2.195	92.393			
7	.215	2.154	94.547			
8	.198	1.981	96.528			
9	.182	1.816	98.344			
10	.166	1.656	100.000			

Extraction Method: Maximum Likelihood.

Factor Matrix[a]

	Factor
	1
t2tot	.838
t3tot	.823
t4tot	.852
t5tot	.830
t6tot	.881
t7tot	.844
t8tot	.900
t9tot	.888

t10tot	.891
t11tot	.862

Extraction Method: Maximum Likelihood.

a. 1 factors extracted. 4 iterations required.

Goodness-of-fit Test

Chi-Square	df	Sig.
419.120	35	.000