

Appendix 3_9f Extended Assessment Writing High Factor Analysis

Oregon 2008 Extended Assessment

High Grade Band WRITING Task Factor Analysis

Math Items Across all Tasks

N of Cases = 338

N of Items = 50

Inter-item Correlations

Summary Item Statistics

	Mean	Min	Max	Range	Maxi / Min	Var	N Items
Item Means	1.252	.831	1.713	.882	2.060	.062	50
Item Variances	.651	.395	.917	.522	2.320	.013	50
Inter-Item Correlations	.477	.190	.856	.666	4.514	.014	50

Alpha = .978

Standardized item alpha = .979

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.969
Bartlett's Test of Sphericity	Approx. Chi-Square	14688.555
	df	1225
	Sig.	.000

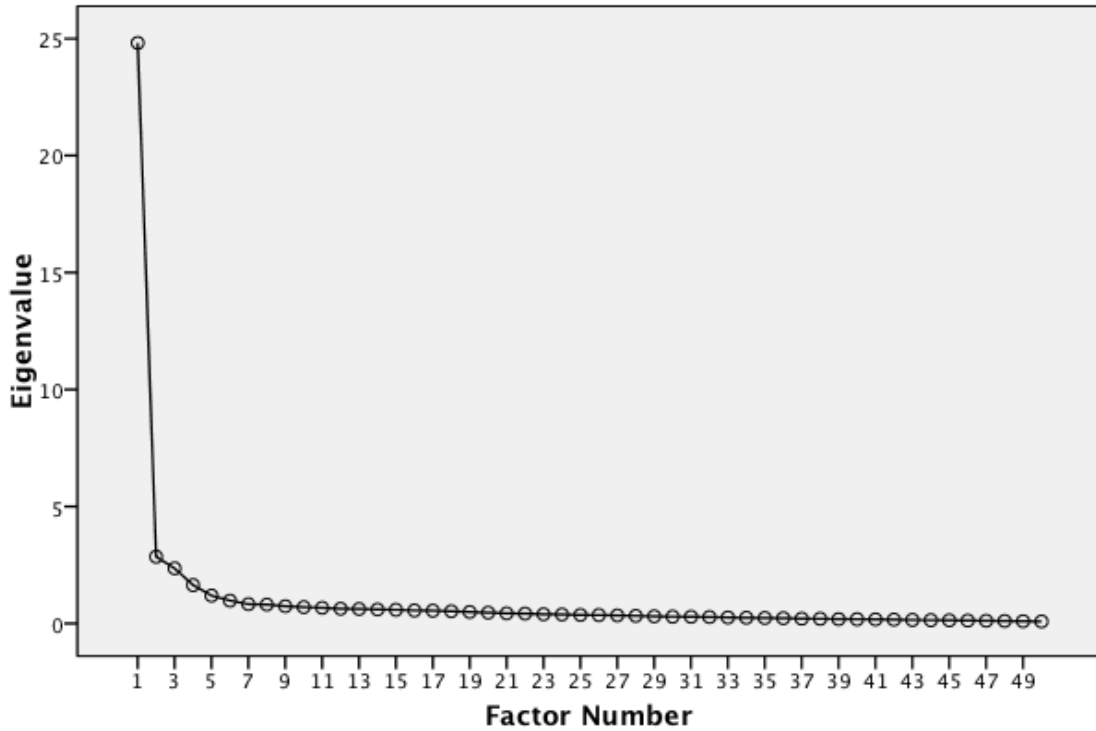
Factor Analysis

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	24.816	49.632	49.632	24.313	48.625	48.625	24.816	49.632	49.632
2	2.857	5.715	55.347	2.246	4.492	53.117	2.857	5.715	55.347
3	2.358	4.717	60.063	2.255	4.510	57.627	2.358	4.717	60.063
4	1.645	3.290	63.354	1.428	2.856	60.483	1.645	3.290	63.354
5	1.193	2.385	65.739	.745	1.490	61.973	1.193	2.385	65.739

Extraction Method: Maximum Likelihood.

Scree Plot



Goodness-of-fit Test

Chi-Square	df	Sig.
1986.355	985	.000

Difference Between Model Fit for 1 Factor and Multiple Factor Models

chisq1	chisq2	chidiff	df1	df2	dfdifff	prob
4759.16	1986.36	2772.81	1175	985	190	.00

Rotated Factor Matrix^a

	Factor				
	1	2	3	4	5
t2r01	.302	.394	.705	.188	.052
t2r02	.260	.329	.771	.133	.099
t2r03	.280	.204	.752	.092	.096
t2r04	.299	.427	.739	.101	.087
t2r05	.291	.345	.785	.156	.071
t3r01	.290	.461	.247	.246	.131
t3r02	.244	.420	.232	.304	.097
t3r03	.325	.583	.248	.212	.116
t3r04	.334	.591	.290	.222	.005
t3r05	.389	.532	.208	.293	.077
t4r01	.312	.597	.313	.224	.039
t4r02	.277	.361	.118	.334	.132
t4r03	.345	.570	.282	.300	.148
t4r04	.206	.371	.093	.305	.089
t4r05	.230	.459	.200	.228	.021
t5r01	.302	.655	.240	.229	.045
t5r02	.248	.565	.134	.251	.158
t5r03	.221	.700	.208	.177	.108
t5r04	.241	.727	.219	.166	.110
t5r05	.279	.604	.175	.255	.154
t6r01	.161	.135	.109	.646	.089
t6r02	.152	.211	.085	.706	.032
t6r03	.191	.190	.079	.728	-2.827E-5
t6r04	.228	.274	.122	.602	.103
t6r05	.114	.240	.061	.752	.063
t7r01	.757	.310	.315	.163	-.031
t7r02	.784	.219	.274	.209	.084
t7r03	.742	.228	.233	.193	-.002
t7r04	.739	.232	.247	.159	.190
t7r05	.767	.256	.253	.156	.079

t8r01	.712	.284	.225	.207	.231
t8r02	.641	.207	.167	.178	.453
t8r03	.535	.168	.186	.160	.532
t8r04	.539	.184	.173	.209	.512
t8r05	.581	.171	.132	.236	.472
t9r01	.655	.259	.130	.249	.168
t9r02	.709	.318	.147	.239	.125
t9r03	.698	.338	.203	.184	.150
t9r04	.708	.270	.212	.155	.139
t9r05	.591	.247	.126	.112	.223
t10r01	.670	.431	.159	.193	.030
t10r02	.616	.413	.159	.173	.017
t10r03	.471	.511	.227	.072	-.128
t10r04	.532	.386	.141	.198	-.025
t10r05	.649	.403	.099	.133	.043
t11r01	.605	.470	.220	.193	-.040
t11r02	.552	.508	.203	.184	.061
t11r03	.603	.481	.191	.126	.073
t11r04	.530	.501	.115	.178	.154
t11r05	.426	.566	.210	.086	-.045

Extraction Method: Maximum Likelihood.

Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 9 iterations.

Task Level Factor Analysis

Descriptive Statistics

	Mean	Std. Deviation	Analysis N
t2tot	7.86	3.232	357
t3tot	6.70	3.157	357
t4tot	5.97	2.897	357
t5tot	7.41	3.203	357
t6tot	4.46	3.798	357
t7tot	5.94	3.748	357
t8tot	4.55	3.602	357
t9tot	5.32	3.603	357
t10tot	6.56	3.395	357
t11tot	6.69	3.516	357

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.945
Bartlett's Test of Sphericity	Approx. Chi-Square	3352.109
	df	45
	Sig.	.000

Communalities

	Initial	Extraction
t2tot	.537	.528
t3tot	.781	.713
t4tot	.736	.649
t5tot	.699	.634
t6tot	.386	.335
t7tot	.773	.764
t8tot	.695	.643
t9tot	.794	.757

t10tot	.787	.795
t11tot	.797	.821

Extraction Method:
Maximum Likelihood.

Total Variance Explained

Factor	Initial Eigenvalues			Extraction Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	6.964	69.641	69.641	6.637	66.370	66.370
2	.828	8.283	77.924			
3	.597	5.973	83.897			
4	.411	4.112	88.009			
5	.307	3.066	91.075			
6	.235	2.349	93.423			
7	.188	1.884	95.307			
8	.167	1.669	96.976			
9	.164	1.636	98.612			
10	.139	1.388	100.000			

Extraction Method: Maximum Likelihood.

Factor Matrix^a

	Factor
	1
t2tot	.727
t3tot	.844
t4tot	.805
t5tot	.796
t6tot	.579
t7tot	.874
t8tot	.802
t9tot	.870
t10tot	.892

t11tot	.906
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Extraction Method:
Maximum
Likelihood.

a. 1 factors
extracted. 4
iterations required.

Goodness-of-fit Test

Chi-Square	df	Sig.
390.862	35	.000