

**Appendix H**  
**Factor Analysis**

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**Table H1**  
**Total Variance Explained for Grade 3 Mathematics Form 1**

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	12.653	19.466	19.466	11.917	18.334	18.334	6.260	9.631	9.631
2	2.275	3.500	22.967	1.518	2.335	20.669	5.419	8.338	17.969
3	1.350	2.077	25.044	0.868	1.335	22.005	1.594	2.452	20.421
4	1.278	1.966	27.010	0.575	0.885	22.889	1.195	1.838	22.259
5	1.176	1.810	28.820	0.440	0.677	23.566	0.850	1.307	23.566
6	1.113	1.712	30.531						
7	1.095	1.684	32.216						
8	1.056	1.625	33.841						
9	1.002	1.542	35.382						
10	0.994	1.528	36.911						
11	0.964	1.483	38.394						
12	0.950	1.461	39.855						
13	0.936	1.441	41.296						
14	0.925	1.423	42.719						
15	0.917	1.410	44.129						
16	0.898	1.381	45.511						
17	0.894	1.376	46.886						
18	0.889	1.368	48.255						
19	0.879	1.352	49.606						
20	0.870	1.339	50.945						
21	0.861	1.324	52.270						
22	0.851	1.309	53.579						
23	0.843	1.298	54.877						
24	0.835	1.285	56.162						
25	0.831	1.278	57.440						
26	0.830	1.277	58.717						
27	0.826	1.271	59.988						
28	0.818	1.259	61.247						
29	0.804	1.237	62.484						
30	0.797	1.227	63.710						
31	0.795	1.222	64.933						
32	0.787	1.211	66.143						
33	0.782	1.203	67.346						
34	0.778	1.197	68.543						
35	0.767	1.180	69.723						
36	0.762	1.173	70.896						
37	0.757	1.165	72.061						
38	0.748	1.151	73.212						
39	0.741	1.141	74.352						
40	0.739	1.137	75.489						
41	0.731	1.125	76.614						
42	0.729	1.121	77.735						
43	0.724	1.114	78.849						
44	0.716	1.101	79.951						

**Table H1 (Cont.)**  
**Total Variance Explained for Grade 3 Mathematics Form 1**

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 %
45	0.715	1.100	81.051						
46	0.707	1.088	82.139						
47	0.704	1.082	83.221						
48	0.696	1.071	84.292						
49	0.694	1.068	85.360						
50	0.691	1.064	86.423						
51	0.687	1.056	87.480						
52	0.680	1.046	88.526						
53	0.673	1.035	89.561						
54	0.661	1.017	90.579						
55	0.656	1.009	91.588						
56	0.642	0.987	92.575						
57	0.616	0.947	93.522						
58	0.592	0.910	94.432						
59	0.581	0.894	95.326						
60	0.576	0.886	96.213						
61	0.561	0.863	97.076						
62	0.537	0.826	97.902						
63	0.526	0.809	98.711						
64	0.453	0.697	99.408						
65	0.385	0.592	100.000						

**Table H2**  
**Factor Loadings – Grade 3 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
12	01	0.229	<b>0.361</b>			
32	01		<b>0.496</b>			
34	01	<b>0.403</b>				
36	01		<b>0.402</b>			
41	01		<b>0.428</b>			
43	01	<b>0.383</b>				
44	01	0.241	0.299			
49	01	<b>0.336</b>	0.287			
58	01	0.247	0.275	0.278		
67	01					
68	01	<b>0.454</b>	0.221			
74	01	<b>0.441</b>				
76	01	0.298				
10	02/03	0.235	<b>0.396</b>			
14	02/03	0.204	0.242			
16	02/03		0.285			
17	02/03		0.279			0.246
33	02/03	<b>0.359</b>				
38	02/03	0.227	0.255			<b>0.395</b>
42	02/03					0.282
46	02/03	<b>0.390</b>				
48	02/03	<b>0.321</b>	0.241			
53	02/03	0.274	0.271			
59	02/03	<b>0.375</b>	0.238			
62	02/03	<b>0.495</b>				
65	02/03	0.241	<b>0.349</b>			
70	02/03		<b>0.380</b>			
72	02/03	0.235	0.228		<b>0.697</b>	
24	04/05		<b>0.439</b>			
35	04/05	0.228				
37	04/05	0.211				
39	04/05		<b>0.417</b>			
47	04/05	0.202	<b>0.514</b>			
50	04/05	0.228	<b>0.377</b>			
51	04/05	<b>0.486</b>				
55	04/05		<b>0.489</b>			
61	04/05	<b>0.496</b>				
69	04/05	<b>0.482</b>				
71	04/05	<b>0.488</b>	0.298			
73	04/05	<b>0.365</b>	<b>0.345</b>			
75	04/05		<b>0.386</b>			
77	04/05	<b>0.308</b>	<b>0.382</b>			

**Table H2 (Cont.)**  
**Factor Loadings – Grade 3 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
1	06		0.225			
2	06		0.284			
4	06	0.219	0.297			
13	06	<b>0.304</b>	<b>0.386</b>			
18	06		<b>0.314</b>			
31	06	<b>0.310</b>	0.246	0.279		
40	06	<b>0.354</b>	<b>0.344</b>			
45	06	<b>0.382</b>	0.207	0.205		
52	06		<b>0.496</b>			
54	06	<b>0.482</b>	0.259			
56	06	0.274	<b>0.360</b>			
57	06	<b>0.494</b>	0.207			
60	06	0.284	0.251			
63	06	<b>0.300</b>				
64	06	<b>0.414</b>	<b>0.329</b>			
66	06	<b>0.352</b>		0.252		
31	07	<b>0.362</b>		<b>0.417</b>		
38	07	0.296	0.203	0.286		<b>0.303</b>
45	07	<b>0.418</b>	0.241	<b>0.312</b>		
58	07	0.272	0.234	<b>0.395</b>		
66	07	<b>0.497</b>		<b>0.412</b>		
72	07	0.209			<b>0.714</b>	
77	07	0.387		<b>0.390</b>		
% Variance Explained		9.631	8.338	2.452	1.838	1.307

**Table H3**  
**Total Variance Explained for Grade 3 Mathematics Form 2**

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	11.729	18.045	18.045	10.981	16.894	16.894	4.505	6.930	6.930
2	2.213	3.405	21.450	1.454	2.237	19.130	3.814	5.868	12.799
3	1.356	2.086	23.536	0.890	1.369	20.499	3.275	5.039	17.837
4	1.268	1.950	25.486	0.496	0.763	21.262	1.458	2.242	20.080
5	1.189	1.830	27.316	0.444	0.683	21.945	1.213	1.866	21.945
6	1.128	1.735	29.051						
7	1.112	1.711	30.762						
8	1.089	1.675	32.437						
9	1.018	1.567	34.004						
10	1.003	1.543	35.547						
11	0.975	1.500	37.047						
12	0.968	1.489	38.536						
13	0.944	1.453	39.989						
14	0.932	1.434	41.423						
15	0.929	1.430	42.853						
16	0.920	1.416	44.269						
17	0.914	1.406	45.675						
18	0.902	1.387	47.062						
19	0.896	1.378	48.441						
20	0.889	1.367	49.808						
21	0.885	1.361	51.169						
22	0.873	1.343	52.512						
23	0.865	1.331	53.842						
24	0.861	1.325	55.167						
25	0.859	1.322	56.489						
26	0.840	1.293	57.782						
27	0.835	1.284	59.066						
28	0.832	1.280	60.347						
29	0.825	1.269	61.616						
30	0.818	1.258	62.874						
31	0.805	1.238	64.112						
32	0.800	1.231	65.343						
33	0.794	1.221	66.564						
34	0.787	1.211	67.775						
35	0.775	1.193	68.968						
36	0.774	1.190	70.158						
37	0.771	1.187	71.344						
38	0.761	1.170	72.515						
39	0.758	1.167	73.681						
40	0.747	1.149	74.830						
41	0.745	1.146	75.976						
42	0.740	1.139	77.115						
43	0.732	1.126	78.240						
44	0.726	1.116	79.357						

**Table H3 (Cont.)**  
**Total Variance Explained for Grade 3 Mathematics Form 2**

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 %
45	0.720	1.108	80.465						
46	0.717	1.103	81.568						
47	0.710	1.093	82.661						
48	0.708	1.090	83.751						
49	0.704	1.083	84.833						
50	0.697	1.072	85.905						
51	0.691	1.063	86.968						
52	0.682	1.050	88.018						
53	0.677	1.041	89.059						
54	0.672	1.034	90.093						
55	0.666	1.024	91.117						
56	0.659	1.014	92.131						
57	0.643	0.989	93.121						
58	0.641	0.986	94.106						
59	0.621	0.956	95.062						
60	0.612	0.941	96.004						
61	0.589	0.906	96.910						
62	0.579	0.890	97.800						
63	0.569	0.875	98.675						
64	0.475	0.731	99.406						
65	0.386	0.594	100.000						



**Table H4**  
**Factor Loadings – Grade 3 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
12	01		<b>0.320</b>	0.232		
32	01		0.201	<b>0.448</b>		
34	01	<b>0.354</b>	0.224			
36	01		0.219	<b>0.364</b>		
41	01		0.231	<b>0.374</b>		
43	01	<b>0.413</b>				
44	01		0.243	0.215		
49	01	0.273	0.274			
58	01		0.273			
67	01					
68	01	<b>0.371</b>	<b>0.305</b>			
74	01	<b>0.401</b>				
76	01	0.290				
10	02/03		<b>0.359</b>	0.240		
14	02/03			0.221		
16	02/03			0.296		
17	02/03			0.278		
33	02/03	<b>0.360</b>				
38	02/03					
42	02/03			0.217		
46	02/03	<b>0.380</b>				
48	02/03	0.269	0.210	0.201		
53	02/03		<b>0.315</b>			
59	02/03	0.272	0.298			
62	02/03	<b>0.482</b>				
65	02/03		<b>0.302</b>	0.263		
70	02/03		0.245	0.291		
72	02/03					<b>0.685</b>
24	04/05			<b>0.515</b>		
35	04/05	0.225				
37	04/05	0.240				
39	04/05			<b>0.487</b>		
47	04/05		<b>0.338</b>	<b>0.407</b>	0.211	
50	04/05		0.257	<b>0.303</b>		
51	04/05	<b>0.485</b>				
55	04/05		<b>0.407</b>	<b>0.316</b>		
61	04/05	<b>0.447</b>	0.234			
69	04/05	<b>0.456</b>	0.221			
71	04/05	<b>0.398</b>	0.376			
73	04/05	0.272	<b>0.340</b>	0.211		
75	04/05			<b>0.341</b>		
77	04/05		<b>0.387</b>	0.219	0.228	

**Table H4 (Cont.)**  
**Factor Loadings – Grade 3 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
1	06		0.234			
2	06			0.215		
4	06		0.240	0.208		
13	06	0.219	<b>0.378</b>	0.232		
18	06			<b>0.351</b>		
31	06	0.227				
40	06	0.275	<b>0.321</b>	0.251		
45	06	0.256	<b>0.336</b>			
52	06		0.332	<b>0.343</b>		
54	06	<b>0.368</b>	<b>0.376</b>			
56	06		<b>0.354</b>	0.209		
57	06	<b>0.404</b>	0.313			
60	06	0.257	0.233			
63	06	0.243				
64	06	0.244	<b>0.451</b>			
66	06	<b>0.334</b>			0.238	
31	07	<b>0.354</b>	0.216	0.204	0.294	
38	07	0.285			<b>0.327</b>	
45	07	0.229			<b>0.377</b>	
58	07	0.267			<b>0.326</b>	
66	07	<b>0.463</b>	0.223		<b>0.421</b>	
72	07					<b>0.736</b>
77	07	<b>0.353</b>	0.203		<b>0.415</b>	
% Variance Explained		6.930	5.868	5.039	2.242	1.866

**Table H5**  
**Total Variance Explained for Grade 4 Mathematics Form 1**

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	13.612	21.269	21.269	12.915	20.180	20.180	6.983	10.910	10.910
2	1.815	2.837	24.106	1.105	1.727	21.907	4.750	7.423	18.333
3	1.439	2.249	26.354	0.851	1.329	23.237	1.846	2.884	21.217
4	1.335	2.085	28.440	0.785	1.227	24.463	1.497	2.340	23.557
5	1.218	1.903	30.343	0.762	1.191	25.655	1.343	2.098	25.655
6	1.149	1.796	32.138						
7	1.126	1.759	33.897						
8	1.066	1.666	35.564						
9	0.999	1.560	37.124						
10	0.982	1.535	38.658						
11	0.971	1.518	40.176						
12	0.953	1.489	41.665						
13	0.928	1.450	43.116						
14	0.919	1.437	44.552						
15	0.909	1.420	45.972						
16	0.897	1.401	47.373						
17	0.893	1.395	48.768						
18	0.876	1.369	50.137						
19	0.870	1.360	51.496						
20	0.861	1.346	52.842						
21	0.849	1.327	54.169						
22	0.844	1.319	55.488						
23	0.836	1.306	56.794						
24	0.834	1.303	58.097						
25	0.828	1.293	59.390						
26	0.823	1.286	60.676						
27	0.821	1.283	61.959						
28	0.811	1.268	63.227						
29	0.806	1.260	64.486						
30	0.804	1.256	65.742						
31	0.791	1.236	66.978						
32	0.786	1.228	68.207						
33	0.782	1.222	69.429						
34	0.779	1.218	70.646						
35	0.773	1.207	71.853						
36	0.771	1.204	73.058						
37	0.761	1.189	74.247						
38	0.753	1.177	75.424						
39	0.748	1.169	76.593						
40	0.745	1.164	77.757						
41	0.741	1.158	78.915						
42	0.732	1.144	80.059						
43	0.728	1.138	81.197						
44	0.725	1.132	82.329						

**Table H5 (Cont.)  
Total Variance Explained for Grade 4 Mathematics Form 1**

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 %
45	0.719	1.124	83.453						
46	0.712	1.112	84.565						
47	0.706	1.102	85.667						
48	0.700	1.094	86.761						
49	0.696	1.087	87.849						
50	0.686	1.072	88.921						
51	0.675	1.055	89.976						
52	0.671	1.048	91.024						
53	0.649	1.015	92.039						
54	0.629	0.982	93.021						
55	0.618	0.965	93.986						
56	0.592	0.925	94.911						
57	0.558	0.871	95.783						
58	0.527	0.823	96.606						
59	0.449	0.701	97.307						
60	0.419	0.655	97.962						
61	0.397	0.621	98.582						
62	0.366	0.571	99.154						
63	0.301	0.471	99.625						
64	0.240	0.375	100.000						

**Table H6**  
**Factor Loadings – Grade 4 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
34	01					
35	01	0.284	<b>0.354</b>			
37	01		<b>0.456</b>			
38	01	<b>0.438</b>	<b>0.307</b>			
39	01	0.236	<b>0.356</b>			
42	01	<b>0.401</b>	0.256			
45	01		<b>0.379</b>			
61	01	0.269				
65	01		0.229			
68	01	0.281	<b>0.317</b>			<b>0.625</b>
76	01		<b>0.337</b>			
77	01	<b>0.366</b>	<b>0.396</b>			
78	01	0.284	0.206			
79	01	0.246	<b>0.428</b>			
20	02/03	0.294	0.283			
31	02/03	<b>0.428</b>				
40	02/03	0.222		<b>0.524</b>		
48	02/03	0.228		0.285		
49	02/03	<b>0.308</b>		0.221		
50	02/03		0.276	0.278		
51	02/03		<b>0.309</b>	<b>0.331</b>		
52	02/03	0.219		<b>0.635</b>		
54	02/03	<b>0.393</b>				
56	02/03	0.296				
59	02/03	<b>0.427</b>				
69	02/03	0.253	0.296			
73	02/03		<b>0.327</b>			
74	02/03	<b>0.485</b>				
36	04/05		0.269			
41	04/05	0.288			<b>0.713</b>	
43	04/05	<b>0.467</b>	0.224			
44	04/05	0.266			0.287	
46	04/05	0.281			<b>0.697</b>	
47	04/05	<b>0.446</b>				
62	04/05	0.216	<b>0.342</b>			
63	04/05	<b>0.350</b>	<b>0.333</b>			
64	04/05	<b>0.359</b>	0.276			
66	04/05	0.286	<b>0.367</b>			
67	04/05	<b>0.389</b>	<b>0.359</b>			
70	04/05	<b>0.340</b>	<b>0.397</b>			
71	04/05	<b>0.326</b>	0.264			
72	04/05	<b>0.436</b>				
75	04/05	<b>0.550</b>				

**Table H6 (Cont.)**  
**Factor Loadings – Grade 4 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
1	06	0.214	0.290			
2	06	0.240	0.224			
3	06	0.253	<b>0.302</b>			
4	06	<b>0.321</b>				
10	06	<b>0.356</b>				
17	06		<b>0.479</b>			
18	06	<b>0.349</b>	0.210			
27	06	<b>0.302</b>	0.233			
33	06		0.261			
53	06	0.284	<b>0.346</b>			
55	06		<b>0.351</b>			
57	06		0.259			
58	06	<b>0.362</b>	<b>0.361</b>			
60	06	<b>0.553</b>				
33	07	<b>0.372</b>	0.229			
40	07	<b>0.416</b>	0.240	<b>0.459</b>		
47	07	<b>0.545</b>	0.230	0.218		
60	07	<b>0.628</b>				
68	07	<b>0.364</b>	0.290			<b>0.819</b>
74	07	<b>0.430</b>				
75	07	<b>0.517</b>				
% Variance Explained		10.910	7.423	2.884	2.340	2.098

**Table H7**  
**Total Variance Explained for Grade 4 Mathematics Form 2**

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	13.869	21.671	21.671	13.177	20.590	20.590	6.902	10.785	10.785
2	2.104	3.287	24.958	1.491	2.330	22.920	4.961	7.752	18.537
3	1.431	2.235	27.193	0.864	1.350	24.269	1.844	2.881	21.418
4	1.240	1.938	29.131	0.713	1.114	25.383	1.719	2.686	24.104
5	1.232	1.925	31.056	0.526	0.822	26.205	1.345	2.102	26.205
6	1.171	1.829	32.885						
7	1.084	1.694	34.579						
8	1.059	1.655	36.234						
9	1.000	1.563	37.797						
10	0.999	1.561	39.358						
11	0.971	1.518	40.876						
12	0.956	1.493	42.369						
13	0.943	1.474	43.843						
14	0.914	1.428	45.270						
15	0.904	1.412	46.682						
16	0.896	1.400	48.082						
17	0.880	1.375	49.458						
18	0.871	1.361	50.818						
19	0.862	1.347	52.165						
20	0.860	1.343	53.508						
21	0.846	1.321	54.830						
22	0.842	1.315	56.145						
23	0.834	1.303	57.448						
24	0.828	1.293	58.742						
25	0.815	1.274	60.015						
26	0.805	1.257	61.272						
27	0.799	1.248	62.520						
28	0.798	1.246	63.766						
29	0.789	1.232	64.999						
30	0.784	1.226	66.225						
31	0.777	1.215	67.439						
32	0.775	1.210	68.649						
33	0.771	1.204	69.854						
34	0.761	1.190	71.043						
35	0.751	1.173	72.216						
36	0.748	1.169	73.385						
37	0.746	1.165	74.550						
38	0.740	1.156	75.706						
39	0.735	1.149	76.855						
40	0.731	1.143	77.998						
41	0.723	1.130	79.128						
42	0.719	1.124	80.252						
43	0.711	1.111	81.363						
44	0.704	1.099	82.462						

**Table H7 (Cont.)  
Total Variance Explained for Grade 4 Mathematics Form 2**

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 %
45	0.699	1.091	83.554						
46	0.689	1.077	84.630						
47	0.683	1.067	85.698						
48	0.675	1.054	86.752						
49	0.672	1.050	87.802						
50	0.660	1.032	88.834						
51	0.647	1.012	89.846						
52	0.644	1.006	90.851						
53	0.620	0.968	91.819						
54	0.614	0.960	92.780						
55	0.604	0.944	93.723						
56	0.559	0.874	94.597						
57	0.549	0.857	95.454						
58	0.533	0.833	96.287						
59	0.527	0.824	97.111						
60	0.502	0.784	97.895						
61	0.465	0.727	98.621						
62	0.377	0.589	99.210						
63	0.346	0.540	99.750						
64	0.160	0.250	100.000						



**Table H8**  
**Factor Loadings – Grade 4 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
34	01		<b>0.351</b>			
35	01	<b>0.302</b>	<b>0.324</b>			
37	01		<b>0.431</b>			
38	01	<b>0.431</b>	0.272			
42	01	<b>0.419</b>	0.216			
44	01		0.287			0.227
48	01		<b>0.329</b>			<b>0.416</b>
61	01	0.277				
65	01	0.220				
68	01	0.291		<b>0.551</b>		
76	01	<b>0.459</b>	0.264			
77	01		0.259			
78	01		0.276			0.221
79	01	0.298		<b>0.496</b>		
20	02/03	<b>0.321</b>	0.284			
31	02/03	<b>0.414</b>				
39	02/03		<b>0.332</b>			0.203
40	02/03	<b>0.365</b>				
49	02/03	<b>0.353</b>				0.202
50	02/03	0.229				<b>0.347</b>
51	02/03		0.261			<b>0.499</b>
52	02/03	<b>0.311</b>				<b>0.326</b>
54	02/03	<b>0.380</b>				
58	02/03				<b>0.332</b>	
59	02/03	<b>0.347</b>				
69	02/03	<b>0.386</b>				
73	02/03	0.292	<b>0.404</b>			
74	02/03	<b>0.357</b>			<b>0.826</b>	
36	04/05		0.250			
41	04/05	<b>0.396</b>				
43	04/05	<b>0.304</b>	<b>0.326</b>			
45	04/05	<b>0.310</b>				
46	04/05	<b>0.469</b>				
47	04/05	<b>0.540</b>				
62	04/05	0.219	<b>0.350</b>			
63	04/05	<b>0.396</b>	<b>0.338</b>			
64	04/05	<b>0.393</b>	0.298			
66	04/05	0.277	<b>0.388</b>			
67	04/05	<b>0.415</b>	<b>0.389</b>			
70	04/05	<b>0.375</b>	<b>0.442</b>			
71	04/05	<b>0.317</b>	<b>0.538</b>			
72	04/05	<b>0.455</b>				
75	04/05	<b>0.494</b>	<b>0.339</b>			

**Table H8 (Cont.)**  
**Factor Loadings – Grade 4 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
1	06		0.244			
2	06	0.229	0.206			
3	06	0.240	0.273			
4	06	0.293		0.252		
10	06	<b>0.340</b>				
17	06		<b>0.440</b>			
18	06	<b>0.323</b>				
27	06	0.292	0.206			
33	06	0.290	<b>0.507</b>			
53	06	0.276	<b>0.306</b>			
55	06		<b>0.381</b>			
56	06	<b>0.343</b>	<b>0.357</b>			
57	06		0.256			
60	06		<b>0.307</b>			
33	07	<b>0.322</b>	<b>0.412</b>			
40	07	<b>0.483</b>	0.208			
47	07	<b>0.595</b>				
60	07	<b>0.405</b>	0.245			
68	07	<b>0.377</b>	0.215	<b>0.697</b>		
74	07	<b>0.450</b>			<b>0.744</b>	
75	07	<b>0.458</b>	<b>0.324</b>			
% Variance Explained		10.785	7.752	2.881	2.686	2.102

**Table H9**  
**Total Variance Explained for Grade 5 Mathematics Form 1**

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	14.945	22.992	22.992	14.298	21.997	21.997	6.430	9.893	9.893
2	1.747	2.688	25.680	1.221	1.879	23.876	5.737	8.826	18.718
3	1.370	2.108	27.788	0.942	1.449	25.325	2.206	3.394	22.112
4	1.235	1.901	29.689	0.837	1.287	26.612	2.109	3.244	25.356
5	1.153	1.773	31.462	0.770	1.185	27.796	1.586	2.440	27.796
6	1.138	1.750	33.213						
7	1.095	1.685	34.898						
8	1.085	1.669	36.567						
9	1.053	1.621	38.187						
10	1.013	1.558	39.746						
11	0.996	1.533	41.278						
12	0.972	1.495	42.773						
13	0.969	1.491	44.265						
14	0.964	1.483	45.747						
15	0.952	1.464	47.211						
16	0.948	1.458	48.670						
17	0.918	1.412	50.082						
18	0.917	1.411	51.493						
19	0.904	1.391	52.884						
20	0.892	1.372	54.256						
21	0.883	1.359	55.615						
22	0.870	1.339	56.953						
23	0.861	1.325	58.278						
24	0.857	1.319	59.597						
25	0.849	1.306	60.903						
26	0.837	1.288	62.191						
27	0.829	1.275	63.466						
28	0.818	1.258	64.724						
29	0.815	1.255	65.979						
30	0.808	1.244	67.222						
31	0.799	1.229	68.451						
32	0.794	1.222	69.673						
33	0.788	1.212	70.886						
34	0.776	1.194	72.079						
35	0.770	1.184	73.264						
36	0.760	1.170	74.434						
37	0.756	1.163	75.597						
38	0.750	1.154	76.750						
39	0.746	1.148	77.899						
40	0.740	1.138	79.037						
41	0.731	1.125	80.161						
42	0.724	1.113	81.275						
43	0.715	1.100	82.374						
44	0.708	1.090	83.464						

**Table H9 (Cont.)  
Total Variance Explained for Grade 5 Mathematics Form 1**

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 %
45	0.706	1.086	84.550						
46	0.695	1.069	85.619						
47	0.694	1.067	86.686						
48	0.684	1.052	87.738						
49	0.680	1.047	88.785						
50	0.665	1.024	89.808						
51	0.662	1.019	90.828						
52	0.652	1.004	91.831						
53	0.646	0.993	92.825						
54	0.637	0.980	93.804						
55	0.629	0.968	94.772						
56	0.591	0.909	95.681						
57	0.482	0.742	96.423						
58	0.478	0.736	97.159						
59	0.406	0.624	97.783						
60	0.302	0.464	98.247						
61	0.283	0.436	98.683						
62	0.257	0.396	99.079						
63	0.246	0.378	99.457						
64	0.202	0.311	99.768						
65	0.151	0.232	100.000						

**Table H10**  
**Factor Loadings – Grade 5 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
27	01	<b>0.421</b>	<b>0.331</b>			
28	01	0.237	0.267			
34	01	<b>0.337</b>				
39	01		0.220			
40	01	0.273	0.292			
41	01	0.267	<b>0.303</b>			
46	01		0.266			
48	01	0.203	<b>0.333</b>			
51	01	<b>0.401</b>				
63	01	<b>0.734</b>		0.218		
65	01	0.265	<b>0.378</b>			
67	01	<b>0.310</b>	<b>0.356</b>			
72	01					
74	01	0.261				
75	01	<b>0.377</b>	0.210			
13	02/03	0.207				
17	02/03					
23	02/03	<b>0.340</b>	<b>0.418</b>			
26	02/03	0.249	<b>0.470</b>			
38	02/03					
42	02/03	0.272	0.234			
43	02/03					
47	02/03		0.269			<b>0.788</b>
49	02/03		0.236		0.257	
50	02/03	0.215				
64	02/03		0.229		<b>0.818</b>	
66	02/03		0.296			
69	02/03	0.214	<b>0.433</b>			
73	02/03	<b>0.318</b>	<b>0.430</b>			
12	04/05	<b>0.323</b>	<b>0.358</b>			
32	04/05	<b>0.407</b>	0.229			
33	04/05	<b>0.360</b>	<b>0.483</b>			
44	04/05	<b>0.402</b>	0.200			
45	04/05	<b>0.347</b>	0.203			
54	04/05					
55	04/05	0.228	<b>0.307</b>			
58	04/05	<b>0.360</b>	<b>0.369</b>			
59	04/05	<b>0.329</b>	0.285			
62	04/05	0.263	<b>0.381</b>			
68	04/05	<b>0.366</b>	<b>0.312</b>			
70	04/05	<b>0.453</b>	0.299			
71	04/05	0.236	<b>0.346</b>			

**Table H10 (Cont.)**  
**Factor Loadings – Grade 5 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
2	06	<b>0.401</b>	0.273			
4	06	<b>0.361</b>	<b>0.314</b>			
6	06	<b>0.377</b>	0.219			
8	06	<b>0.302</b>	0.282			
31	06	<b>0.317</b>	<b>0.358</b>			
35	06	0.216	<b>0.357</b>	0.232		
36	06	0.260	0.244			
37	06	<b>0.329</b>	0.239			
52	06					
53	06	<b>0.303</b>	0.225			
56	06	0.279				
57	06	0.285	<b>0.453</b>			
60	06	<b>0.415</b>	0.284			
61	06	0.271	<b>0.325</b>			
76	06		0.289	<b>0.793</b>		
33	07	<b>0.366</b>	<b>0.435</b>			
40	07	<b>0.359</b>	<b>0.470</b>	0.237	0.219	
47	07	<b>0.369</b>	<b>0.313</b>			<b>0.657</b>
57	07	<b>0.350</b>	<b>0.530</b>			
63	07	<b>0.704</b>		0.211		
64	07	0.231	0.216		<b>0.759</b>	
70	07	<b>0.499</b>	<b>0.319</b>			
76	07	0.224	<b>0.313</b>	<b>0.814</b>		
% Variance Explained		9.893	8.826	3.394	3.244	2.440

**Table H11**  
**Total Variance Explained for Grade 5 Mathematics Form 2**

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	13.998	21.536	21.536	13.342	20.526	20.526	5.883	9.050	9.050
2	1.728	2.658	24.194	1.199	1.845	22.371	5.350	8.231	17.281
3	1.362	2.095	26.289	0.885	1.362	23.733	2.244	3.453	20.734
4	1.273	1.958	28.247	0.733	1.127	24.861	1.724	2.652	23.385
5	1.188	1.828	30.075	0.627	0.965	25.825	1.586	2.440	25.825
6	1.146	1.762	31.838						
7	1.103	1.698	33.535						
8	1.086	1.672	35.207						
9	1.036	1.595	36.801						
10	1.007	1.549	38.350						
11	0.993	1.527	39.877						
12	0.979	1.506	41.384						
13	0.963	1.482	42.865						
14	0.952	1.465	44.330						
15	0.948	1.458	45.788						
16	0.936	1.440	47.228						
17	0.924	1.422	48.650						
18	0.916	1.410	50.060						
19	0.896	1.379	51.439						
20	0.890	1.369	52.808						
21	0.880	1.353	54.161						
22	0.875	1.346	55.508						
23	0.862	1.326	56.834						
24	0.854	1.314	58.147						
25	0.850	1.307	59.455						
26	0.841	1.293	60.748						
27	0.830	1.276	62.025						
28	0.821	1.264	63.288						
29	0.816	1.255	64.543						
30	0.813	1.250	65.793						
31	0.802	1.233	67.027						
32	0.796	1.225	68.251						
33	0.788	1.213	69.464						
34	0.781	1.201	70.665						
35	0.774	1.191	71.856						
36	0.761	1.170	73.026						
37	0.758	1.165	74.192						
38	0.751	1.156	75.347						
39	0.745	1.146	76.493						
40	0.739	1.137	77.629						
41	0.733	1.128	78.758						
42	0.724	1.114	79.872						
43	0.721	1.109	80.981						
44	0.719	1.106	82.087						

**Table H11 (Cont.)  
Total Variance Explained for Grade 5 Mathematics Form 2**

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 %
45	0.708	1.090	83.177						
46	0.706	1.086	84.263						
47	0.702	1.079	85.342						
48	0.693	1.066	86.408						
49	0.686	1.055	87.464						
50	0.682	1.049	88.513						
51	0.674	1.037	89.550						
52	0.669	1.029	90.579						
53	0.647	0.995	91.574						
54	0.642	0.987	92.561						
55	0.637	0.980	93.541						
56	0.617	0.950	94.491						
57	0.605	0.931	95.422						
58	0.598	0.921	96.343						
59	0.582	0.895	97.238						
60	0.483	0.743	97.980						
61	0.460	0.707	98.688						
62	0.264	0.406	99.094						
63	0.229	0.353	99.447						
64	0.206	0.317	99.764						
65	0.154	0.236	100.000						



**Table H12**  
**Factor Loadings – Grade 5 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
27	01	<b>0.401</b>	<b>0.317</b>	0.248		
28	01	<b>0.314</b>				
34	01		<b>0.313</b>			
39	01	0.252				
40	01	<b>0.426</b>	0.205	<b>0.564</b>		
41	01	<b>0.361</b>		0.202		
46	01	0.272				
48	01	<b>0.388</b>				
51	01	0.251	<b>0.306</b>	0.255		0.200
63	01		<b>0.470</b>	<b>0.610</b>		
65	01	<b>0.386</b>	0.276			
67	01	<b>0.392</b>	0.280			
72	01					
74	01		0.237			
75	01	0.207	<b>0.357</b>			
13	02/03		0.223			
17	02/03					
23	02/03	<b>0.439</b>	0.297			
26	02/03	<b>0.503</b>	0.234			
38	02/03	0.217				
42	02/03	0.241	0.277			
43	02/03	0.202				
47	02/03	<b>0.344</b>				<b>0.691</b>
49	02/03	0.283				
50	02/03					
64	02/03		<b>0.391</b>			
66	02/03	<b>0.310</b>				
69	02/03	<b>0.469</b>	0.206			
73	02/03	<b>0.464</b>	0.278			
12	04/05	<b>0.360</b>	<b>0.306</b>			
32	04/05		<b>0.450</b>			
33	04/05	<b>0.356</b>	0.268			
44	04/05		<b>0.409</b>			
45	04/05	0.208	<b>0.313</b>			
54	04/05					
55	04/05	<b>0.345</b>				
58	04/05	<b>0.336</b>	<b>0.363</b>			
59	04/05	0.250	<b>0.368</b>			
62	04/05	<b>0.423</b>	0.257			
68	04/05	0.271	0.409			
70	04/05	0.258	0.491			
71	04/05	<b>0.366</b>				

**Table H12 (Cont.)**  
**Factor Loadings – Grade 5 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
2	06	0.298	<b>0.323</b>			
4	06	<b>0.341</b>	<b>0.312</b>			
6	06	0.221	<b>0.358</b>			
8	06	<b>0.316</b>	0.255			
31	06	<b>0.389</b>	0.280			
35	06	<b>0.398</b>				
36	06	0.288	0.230			
37	06		<b>0.366</b>			
52	06					
53	06	<b>0.301</b>	0.223			
56	06		0.259			
57	06					
60	06	<b>0.302</b>	<b>0.376</b>			
61	06	<b>0.338</b>	0.284			
76	06	<b>0.346</b>			<b>0.784</b>	
33	07	<b>0.371</b>	<b>0.360</b>			
40	07	<b>0.509</b>	0.264	<b>0.585</b>		
47	07	<b>0.315</b>	<b>0.329</b>			<b>0.733</b>
57	07	0.227	<b>0.323</b>			
63	07		<b>0.459</b>	<b>0.596</b>		
64	07	0.217	<b>0.404</b>			
70	07	0.255	<b>0.545</b>			
76	07	<b>0.360</b>	0.207		<b>0.796</b>	
% Variance Explained		9.050	8.231	3.453	2.652	2.440

**Table H13**  
**Total Variance Explained for Grade 6 Mathematics Form 1**

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	14.691	23.696	23.696	14.042	22.649	22.649	6.706	10.816	10.816
2	1.984	3.200	26.896	1.324	2.135	24.784	6.189	9.983	20.799
3	1.419	2.289	29.185	0.900	1.452	26.236	1.959	3.160	23.958
4	1.286	2.074	31.259	0.761	1.228	27.464	1.504	2.426	26.385
5	1.213	1.956	33.214	0.649	1.047	28.511	1.318	2.126	28.511
6	1.180	1.903	35.117						
7	1.099	1.773	36.891						
8	1.022	1.648	38.538						
9	0.999	1.611	40.149						
10	0.985	1.589	41.738						
11	0.952	1.536	43.275						
12	0.950	1.532	44.806						
13	0.937	1.512	46.318						
14	0.918	1.480	47.798						
15	0.902	1.454	49.252						
16	0.889	1.434	50.686						
17	0.880	1.420	52.106						
18	0.862	1.390	53.497						
19	0.856	1.380	54.877						
20	0.848	1.368	56.245						
21	0.832	1.342	57.587						
22	0.824	1.330	58.917						
23	0.817	1.318	60.235						
24	0.808	1.304	61.539						
25	0.801	1.292	62.830						
26	0.796	1.284	64.115						
27	0.792	1.277	65.391						
28	0.789	1.273	66.664						
29	0.772	1.245	67.910						
30	0.771	1.243	69.153						
31	0.761	1.227	70.380						
32	0.758	1.223	71.603						
33	0.749	1.207	72.811						
34	0.743	1.198	74.009						
35	0.741	1.194	75.203						
36	0.729	1.177	76.380						
37	0.724	1.168	77.548						
38	0.715	1.153	78.702						
39	0.702	1.133	79.834						
40	0.700	1.129	80.963						
41	0.692	1.116	82.079						
42	0.690	1.113	83.192						
43	0.685	1.105	84.297						
44	0.675	1.089	85.386						

**Table H13 (Cont.)**  
**Total Variance Explained for Grade 6 Mathematics Form 1**

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 %
45	0.668	1.077	86.463						
46	0.666	1.075	87.538						
47	0.663	1.069	88.607						
48	0.645	1.040	89.647						
49	0.641	1.035	90.681						
50	0.631	1.017	91.698						
51	0.627	1.011	92.709						
52	0.607	0.979	93.688						
53	0.591	0.953	94.641						
54	0.575	0.928	95.570						
55	0.525	0.847	96.417						
56	0.454	0.732	97.149						
57	0.378	0.610	97.759						
58	0.359	0.579	98.337						
59	0.320	0.517	98.854						
60	0.283	0.457	99.311						
61	0.236	0.381	99.692						
62	0.191	0.308	100.000						

**Table H14**  
**Factor Loadings – Grade 6 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
13	01	<b>0.446</b>				
40	01	<b>0.304</b>	<b>0.419</b>			<b>0.673</b>
54	01		0.259			
55	01		<b>0.367</b>			
56	01		0.252			
65	01	<b>0.508</b>				
67	01	0.221	0.207	<b>0.544</b>		
68	01	<b>0.326</b>	<b>0.393</b>	0.239		
69	01	0.234	0.268	<b>0.739</b>		
73	01	0.228				
75	01	0.269	<b>0.393</b>			
77	01	0.227	<b>0.324</b>			
79	01	<b>0.437</b>	0.251			
80	01	<b>0.483</b>				
17	02/03	<b>0.378</b>	0.216			
37	02/03	<b>0.345</b>	<b>0.411</b>		0.241	
38	02/03	<b>0.336</b>	0.259			
39	02/03		0.219			
41	02/03	0.287	0.270			
42	02/03	0.254	0.267			
45	02/03		0.298			
49	02/03		<b>0.696</b>			
52	02/03		<b>0.577</b>			
57	02/03	<b>0.316</b>	<b>0.330</b>			
58	02/03	0.266			<b>0.651</b>	
72	02/03	<b>0.365</b>	0.218			
74	02/03	0.212	0.269			
76	02/03		0.227			
43	04/05	<b>0.435</b>	0.232			
44	04/05	<b>0.501</b>	0.263			
46	04/05	<b>0.422</b>	0.263			
47	04/05		<b>0.368</b>			
48	04/05		<b>0.302</b>			
50	04/05	<b>0.392</b>				
51	04/05	<b>0.321</b>	<b>0.309</b>			
53	04/05		<b>0.355</b>			
63	04/05	<b>0.409</b>				
66	04/05	<b>0.364</b>				
70	04/05	<b>0.387</b>				
71	04/05	0.244	0.215			
78	04/05	<b>0.590</b>	0.230			

**Table H14 (Cont.)**  
**Factor Loadings – Grade 6 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
6	06	<b>0.467</b>				
18	06	<b>0.476</b>	0.218			
20	06	<b>0.509</b>	<b>0.303</b>			
32	06	<b>0.354</b>	<b>0.323</b>			
33	06		0.262			
34	06		<b>0.330</b>			
35	06	0.236	0.271			
36	06	<b>0.307</b>	0.271			
59	06	<b>0.354</b>	0.233			
60	06	0.242	<b>0.407</b>			
61	06	<b>0.327</b>	<b>0.304</b>			
62	06	0.255	0.247			
64	06	0.263	<b>0.490</b>			
81	06		<b>0.390</b>			
40	07	0.289	<b>0.472</b>			<b>0.674</b>
49	07	0.241	<b>0.679</b>			
58	07	<b>0.374</b>			<b>0.665</b>	
64	07	<b>0.474</b>	<b>0.475</b>			
69	07	<b>0.394</b>	0.290	<b>0.607</b>		
78	07	<b>0.528</b>	0.282			
81	07	<b>0.321</b>	<b>0.306</b>			
% Variance Explained		10.816	9.983	3.160	2.426	2.126

**Table H15**  
**Total Variance Explained for Grade 6 Mathematics Form 2**

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	13.835	22.314	22.314	13.169	21.241	21.241	6.595	10.638	10.638
2	2.018	3.256	25.570	1.337	2.156	23.397	5.098	8.223	18.861
3	1.425	2.299	27.869	0.865	1.395	24.792	1.941	3.131	21.991
4	1.346	2.172	30.041	0.730	1.178	25.970	1.577	2.544	24.535
5	1.208	1.949	31.989	0.683	1.101	27.072	1.573	2.536	27.072
6	1.141	1.841	33.830						
7	1.095	1.767	35.597						
8	1.047	1.689	37.287						
9	1.019	1.644	38.930						
10	1.008	1.626	40.556						
11	0.979	1.579	42.135						
12	0.972	1.568	43.703						
13	0.935	1.508	45.211						
14	0.927	1.496	46.707						
15	0.919	1.482	48.189						
16	0.899	1.450	49.639						
17	0.892	1.439	51.078						
18	0.882	1.423	52.501						
19	0.872	1.406	53.906						
20	0.861	1.389	55.295						
21	0.859	1.385	56.680						
22	0.844	1.361	58.041						
23	0.836	1.348	59.389						
24	0.823	1.327	60.716						
25	0.819	1.320	62.036						
26	0.813	1.311	63.347						
27	0.805	1.299	64.645						
28	0.802	1.293	65.938						
29	0.791	1.275	67.213						
30	0.787	1.269	68.482						
31	0.781	1.260	69.742						
32	0.765	1.234	70.976						
33	0.762	1.229	72.205						
34	0.751	1.211	73.417						
35	0.739	1.192	74.609						
36	0.733	1.183	75.791						
37	0.726	1.172	76.963						
38	0.721	1.163	78.125						
39	0.712	1.149	79.274						
40	0.712	1.148	80.422						
41	0.705	1.137	81.559						
42	0.694	1.119	82.678						
43	0.689	1.112	83.790						
44	0.687	1.108	84.898						

**Table H15 (Cont.)  
Total Variance Explained for Grade 6 Mathematics Form 2**

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 %
45	0.678	1.094	85.992						
46	0.677	1.092	87.084						
47	0.674	1.086	88.170						
48	0.665	1.073	89.243						
49	0.662	1.068	90.311						
50	0.647	1.043	91.355						
51	0.645	1.040	92.395						
52	0.629	1.014	93.409						
53	0.594	0.958	94.367						
54	0.579	0.935	95.302						
55	0.518	0.835	96.137						
56	0.471	0.760	96.897						
57	0.414	0.667	97.564						
58	0.381	0.615	98.179						
59	0.355	0.572	98.751						
60	0.337	0.543	99.294						
61	0.235	0.380	99.674						
62	0.202	0.326	100.000						



**Table H16**  
**Factor Loadings – Grade 6 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
13	01	<b>0.443</b>				
39	01	<b>0.422</b>	0.246			0.246
55	01	0.213	0.256			
56	01	0.203	<b>0.350</b>			
57	01	0.291				
62	01	<b>0.302</b>	<b>0.342</b>	<b>0.525</b>		
67	01	<b>0.473</b>				
68	01	0.278	0.248			
69	01	<b>0.361</b>	0.224		<b>0.752</b>	
72	01	<b>0.399</b>	0.264			
77	01	<b>0.394</b>			<b>0.302</b>	
78	01		0.235			
79	01		0.212			
80	01	<b>0.300</b>	0.212			
17	02/03	<b>0.366</b>				
36	02/03	<b>0.341</b>	0.209			
38	02/03					
40	02/03	<b>0.304</b>	0.247			
41	02/03		<b>0.339</b>			
42	02/03	<b>0.355</b>	0.276			
43	02/03		<b>0.342</b>			
44	02/03		<b>0.576</b>			
45	02/03		<b>0.317</b>			
49	02/03		<b>0.642</b>			
58	02/03	0.208				0.208
71	02/03	<b>0.343</b>				<b>0.593</b>
73	02/03	<b>0.373</b>	0.275			0.201
75	02/03	<b>0.378</b>				0.202
46	04/05	0.226	0.287			
47	04/05		<b>0.508</b>			
48	04/05		0.296			
50	04/05	<b>0.452</b>				
51	04/05	<b>0.365</b>	0.286			
52	04/05	<b>0.318</b>	0.205			
53	04/05	<b>0.436</b>	0.276			
54	04/05		<b>0.322</b>			
64	04/05	<b>0.398</b>				
66	04/05	<b>0.339</b>				
70	04/05	<b>0.451</b>				
74	04/05	<b>0.401</b>	0.275			
76	04/05	<b>0.436</b>				

**Table H16 (Cont.)**  
**Factor Loadings – Grade 6 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
6	06	<b>0.440</b>				
18	06	<b>0.437</b>				
20	06	<b>0.437</b>	0.289			
32	06	<b>0.339</b>	0.298	0.204		
33	06		0.244			
34	06		0.280			
35	06	<b>0.309</b>	0.262			
37	06	0.228	0.281			
59	06	<b>0.376</b>		0.223		
60	06	0.233	<b>0.400</b>			
61	06	<b>0.316</b>	0.283			
63	06	0.271	0.219	0.206		
65	06	0.240	0.271	<b>0.659</b>		
81	06	0.290	<b>0.398</b>			
39	07	<b>0.438</b>	<b>0.360</b>			0.271
49	07	0.236	<b>0.603</b>			0.263
58	07	<b>0.358</b>				<b>0.640</b>
65	07	<b>0.365</b>	0.265	<b>0.547</b>		
69	07	<b>0.425</b>	0.226		<b>0.732</b>	
76	07	<b>0.519</b>	0.231	0.209		
81	07	<b>0.395</b>	<b>0.477</b>			
% Variance Explained		10.638	8.223	3.131	2.544	2.536

**Table H17**  
**Total Variance Explained for Grade 7 Mathematics Form 1**

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	17.611	28.404	28.404	16.978	27.383	27.383	7.609	12.273	12.273
2	2.091	3.373	31.777	1.528	2.464	29.848	7.590	12.243	24.516
3	1.360	2.194	33.971	0.815	1.315	31.163	2.159	3.482	27.998
4	1.219	1.965	35.936	0.671	1.083	32.246	1.931	3.115	31.113
5	1.149	1.854	37.790	0.604	0.974	33.220	1.306	2.107	33.220
6	1.098	1.771	39.561						
7	1.027	1.657	41.218						
8	1.014	1.635	42.853						
9	0.951	1.535	44.388						
10	0.946	1.526	45.914						
11	0.918	1.481	47.395						
12	0.910	1.467	48.862						
13	0.874	1.410	50.271						
14	0.866	1.397	51.669						
15	0.861	1.389	53.057						
16	0.852	1.375	54.432						
17	0.844	1.362	55.794						
18	0.830	1.339	57.134						
19	0.821	1.325	58.459						
20	0.811	1.309	59.768						
21	0.805	1.298	61.065						
22	0.783	1.263	62.328						
23	0.770	1.242	63.570						
24	0.767	1.238	64.808						
25	0.766	1.236	66.044						
26	0.757	1.221	67.265						
27	0.754	1.217	68.482						
28	0.747	1.204	69.686						
29	0.733	1.183	70.868						
30	0.726	1.171	72.039						
31	0.720	1.161	73.200						
32	0.709	1.143	74.344						
33	0.694	1.120	75.463						
34	0.691	1.115	76.578						
35	0.689	1.111	77.689						
36	0.683	1.101	78.791						
37	0.668	1.078	79.869						
38	0.659	1.062	80.931						
39	0.652	1.051	81.982						
40	0.645	1.041	83.022						
41	0.640	1.032	84.054						
42	0.628	1.013	85.067						
43	0.621	1.002	86.069						
44	0.614	0.990	87.059						

**Table H17 (Cont.)  
Total Variance Explained for Grade 7 Mathematics Form 1**

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 %
45	0.604	0.974	88.033						
46	0.594	0.957	88.990						
47	0.563	0.908	89.898						
48	0.560	0.904	90.802						
49	0.550	0.887	91.689						
50	0.528	0.852	92.541						
51	0.508	0.819	93.360						
52	0.501	0.808	94.168						
53	0.472	0.762	94.930						
54	0.438	0.707	95.637						
55	0.416	0.670	96.307						
56	0.395	0.637	96.944						
57	0.391	0.631	97.574						
58	0.374	0.603	98.177						
59	0.364	0.587	98.764						
60	0.329	0.530	99.294						
61	0.265	0.427	99.721						
62	0.173	0.279	100.000						

**Table H18**  
**Factor Loadings – Grade 7 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
40	01	0.249	<b>0.342</b>			
45	01	<b>0.300</b>	<b>0.438</b>			
46	01	0.290	<b>0.378</b>			
47	01	0.221	<b>0.389</b>	0.216		
48	01	<b>0.302</b>				
49	01	0.251				
64	01	<b>0.352</b>	<b>0.401</b>			
65	01	<b>0.362</b>	0.228			
68	01	<b>0.490</b>	0.270			
70	01	<b>0.409</b>				
71	01	<b>0.480</b>	<b>0.410</b>			
73	01	<b>0.368</b>				
79	01	<b>0.568</b>	<b>0.336</b>			
81	01	<b>0.516</b>				
24	02/03	<b>0.319</b>	<b>0.525</b>			
33	02/03	<b>0.326</b>				
38	02/03	<b>0.335</b>	<b>0.403</b>			
42	02/03					
43	02/03	<b>0.355</b>	<b>0.399</b>			
50	02/03	0.249	<b>0.472</b>			
51	02/03	<b>0.339</b>				
52	02/03	<b>0.305</b>			<b>0.635</b>	
53	02/03	<b>0.450</b>	0.236		0.222	
56	02/03	<b>0.458</b>	<b>0.386</b>			
57	02/03	<b>0.337</b>	<b>0.394</b>			
76	02/03	0.246	<b>0.381</b>	0.228	0.244	
77	02/03	0.287			<b>0.660</b>	
35	04/05	<b>0.454</b>				
37	04/05	0.213	0.271			<b>0.604</b>
39	04/05	0.250	<b>0.476</b>			
41	04/05		0.269	0.200		
44	04/05	0.272	<b>0.597</b>			
58	04/05	<b>0.326</b>	<b>0.356</b>			
59	04/05	0.290	0.221			
60	04/05		<b>0.333</b>	0.234		
61	04/05		<b>0.600</b>			
62	04/05	0.262	<b>0.572</b>			
63	04/05		0.268	<b>0.679</b>		
66	04/05	<b>0.310</b>	<b>0.441</b>			
78	04/05	<b>0.454</b>	0.288			
80	04/05	0.266	<b>0.413</b>	0.203		

**Table H18 (Cont.)**  
**Factor Loadings – Grade 7 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
3	06	<b>0.385</b>	0.267			
9	06	0.261	0.296			
13	06	0.273	<b>0.543</b>			
15	06		<b>0.327</b>	0.255		
32	06	<b>0.320</b>	0.293			
34	06	<b>0.341</b>	<b>0.346</b>			
36	06	<b>0.383</b>	0.299			
54	06	<b>0.544</b>	0.203			
55	06	<b>0.561</b>	0.298			
67	06	<b>0.453</b>	0.225			
69	06	0.280	<b>0.448</b>			
72	06	<b>0.352</b>	<b>0.381</b>			
74	06	<b>0.448</b>	0.221			
75	06	<b>0.397</b>	0.270			
37	07	<b>0.322</b>	0.204			<b>0.639</b>
44	07	0.249	<b>0.646</b>			
53	07	<b>0.475</b>	0.237		0.239	
63	07		<b>0.341</b>	<b>0.800</b>		
68	07	<b>0.485</b>	<b>0.336</b>	0.261		
76	07	<b>0.300</b>	<b>0.412</b>	0.283	0.282	
81	07	<b>0.536</b>	<b>0.439</b>			
% Variance Explained		12.273	12.243	3.482	3.115	2.107

**Table H19**  
**Total Variance Explained for Grade 7 Mathematics Form 2**

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	18.836	30.381	30.381	18.245	29.427	29.427	7.251	11.695	11.695
2	1.842	2.971	33.352	1.172	1.890	31.317	5.673	9.150	20.845
3	1.390	2.242	35.594	0.897	1.447	32.765	5.289	8.530	29.376
4	1.247	2.012	37.605	0.838	1.352	34.117	1.846	2.978	32.354
5	1.193	1.924	39.529	0.669	1.079	35.196	1.762	2.843	35.196
6	1.076	1.736	41.265						
7	1.046	1.687	42.952						
8	1.006	1.622	44.574						
9	0.963	1.553	46.127						
10	0.939	1.515	47.642						
11	0.921	1.485	49.127						
12	0.881	1.421	50.548						
13	0.876	1.412	51.961						
14	0.863	1.392	53.353						
15	0.853	1.375	54.728						
16	0.833	1.344	56.072						
17	0.817	1.318	57.390						
18	0.814	1.314	58.704						
19	0.808	1.304	60.008						
20	0.791	1.275	61.283						
21	0.781	1.260	62.543						
22	0.773	1.246	63.790						
23	0.764	1.232	65.022						
24	0.761	1.227	66.249						
25	0.748	1.207	67.456						
26	0.746	1.202	68.658						
27	0.730	1.177	69.835						
28	0.721	1.163	70.999						
29	0.710	1.146	72.144						
30	0.707	1.141	73.285						
31	0.704	1.135	74.420						
32	0.693	1.118	75.537						
33	0.686	1.106	76.643						
34	0.682	1.101	77.744						
35	0.676	1.090	78.833						
36	0.672	1.084	79.917						
37	0.671	1.082	80.999						
38	0.663	1.069	82.068						
39	0.655	1.056	83.124						
40	0.643	1.037	84.161						
41	0.638	1.028	85.189						
42	0.632	1.020	86.209						
43	0.616	0.993	87.203						
44	0.601	0.970	88.173						

**Table H19 (Cont.)**  
**Total Variance Explained for Grade 7 Mathematics Form 2**

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 %
45	0.593	0.957	89.130						
46	0.584	0.942	90.072						
47	0.572	0.922	90.994						
48	0.553	0.893	91.886						
49	0.541	0.872	92.759						
50	0.505	0.815	93.574						
51	0.485	0.783	94.357						
52	0.477	0.770	95.126						
53	0.464	0.749	95.875						
54	0.430	0.694	96.569						
55	0.393	0.633	97.202						
56	0.382	0.617	97.819						
57	0.364	0.588	98.406						
58	0.336	0.541	98.948						
59	0.195	0.314	99.261						
60	0.188	0.303	99.564						
61	0.140	0.226	99.790						
62	0.130	0.210	100.000						



**Table H20**  
**Factor Loadings – Grade 7 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
43	01	<b>0.310</b>	<b>0.363</b>	0.243		
44	01	0.278	0.254	0.287		
45	01	<b>0.265</b>	0.251	0.257		
46	01	<b>0.244</b>				
47	01	0.220	0.282	<b>0.309</b>		
48	01	<b>0.283</b>				
63	01	<b>0.479</b>				
64	01	<b>0.359</b>	0.216	0.282		
67	01	<b>0.468</b>	<b>0.385</b>	<b>0.303</b>		
68	01	<b>0.385</b>				
70	01	<b>0.466</b>	<b>0.329</b>	0.252		
72	01	<b>0.349</b>				
80	01	<b>0.591</b>	0.284	0.219		
81	01	<b>0.317</b>	<b>0.498</b>	0.266		
24	02/03	<b>0.327</b>	<b>0.515</b>	0.205		
33	02/03		<b>0.365</b>	0.272		
35	02/03	<b>0.349</b>				
38	02/03	<b>0.400</b>	0.270	0.240		
40	02/03	<b>0.384</b>	<b>0.323</b>	0.245		
50	02/03	0.223	<b>0.492</b>	0.229		
51	02/03	<b>0.394</b>				
52	02/03	<b>0.430</b>				
53	02/03	0.233	0.232			<b>0.725</b>
55	02/03	0.239	<b>0.432</b>	0.274		0.249
56	02/03	<b>0.387</b>	<b>0.417</b>	0.275		0.239
76	02/03	<b>0.584</b>	0.246	0.227		
77	02/03	<b>0.288</b>	<b>0.515</b>	0.229		
34	04/05	<b>0.312</b>	0.204	0.299		
37	04/05	<b>0.469</b>				
41	04/05	<b>0.510</b>		<b>0.311</b>		
42	04/05	0.221	0.247	<b>0.565</b>		
49	04/05	<b>0.389</b>	0.256	0.203	<b>0.728</b>	
58	04/05	<b>0.298</b>				
59	04/05			<b>0.413</b>		
60	04/05	0.208	<b>0.412</b>	<b>0.345</b>	<b>0.338</b>	
61	04/05	0.279	<b>0.429</b>	0.282	<b>0.335</b>	
62	04/05			<b>0.444</b>		
66	04/05	0.252	<b>0.360</b>	<b>0.352</b>		
69	04/05			<b>0.360</b>		
78	04/05	0.200		<b>0.610</b>		
79	04/05			<b>0.469</b>		

**Table H20 (Cont.)**  
**Factor Loadings – Grade 7 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
3	06	<b>0.384</b>	0.257			
9	06	0.245	0.246	0.205		
13	06	0.292	<b>0.422</b>	0.278		
15	06		0.231	<b>0.333</b>		
32	06	<b>0.333</b>	0.253			
36	06	<b>0.358</b>	0.205	0.254		
39	06	<b>0.426</b>	0.244			
54	06	0.211	<b>0.477</b>	<b>0.319</b>		
57	06	0.222	<b>0.401</b>	0.265		
65	06	<b>0.301</b>	<b>0.363</b>	0.283		
71	06	<b>0.324</b>	<b>0.349</b>	0.244		
73	06	<b>0.331</b>	<b>0.402</b>	0.205		
74	06	<b>0.441</b>				
75	06	<b>0.356</b>	0.253	0.208		
41	07	<b>0.335</b>	0.227	<b>0.516</b>		
49	07	<b>0.341</b>	<b>0.332</b>	0.292	<b>0.706</b>	
53	07	<b>0.348</b>	0.267	0.249		<b>0.746</b>
62	07	0.275	0.212	<b>0.681</b>		
67	07	<b>0.404</b>	0.243			
76	07	<b>0.542</b>	0.294	<b>0.318</b>		
81	07	<b>0.383</b>	<b>0.551</b>	<b>0.350</b>		
% Variance Explained		11.695	9.150	8.530	2.978	2.843

**Table H21**  
**Total Variance Explained for Grade 8 Mathematics Form 1**

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	16.799	26.248	26.248	16.198	25.310	25.310	7.392	11.550	11.550
2	2.078	3.246	29.495	1.502	2.348	27.657	5.481	8.564	20.114
3	1.342	2.096	31.591	0.810	1.265	28.922	3.006	4.697	24.811
4	1.268	1.982	33.573	0.779	1.217	30.139	2.681	4.189	29.000
5	1.170	1.828	35.401	0.640	1.000	31.139	1.369	2.139	31.139
6	1.134	1.772	37.173						
7	1.061	1.658	38.831						
8	1.006	1.572	40.403						
9	0.991	1.548	41.951						
10	0.979	1.529	43.481						
11	0.944	1.475	44.956						
12	0.939	1.467	46.423						
13	0.934	1.460	47.883						
14	0.915	1.429	49.312						
15	0.895	1.398	50.710						
16	0.893	1.395	52.105						
17	0.881	1.377	53.482						
18	0.860	1.344	54.826						
19	0.853	1.333	56.159						
20	0.849	1.326	57.485						
21	0.838	1.309	58.794						
22	0.830	1.297	60.091						
23	0.825	1.289	61.380						
24	0.816	1.274	62.654						
25	0.809	1.265	63.919						
26	0.797	1.245	65.164						
27	0.789	1.233	66.397						
28	0.783	1.223	67.620						
29	0.777	1.214	68.834						
30	0.772	1.206	70.040						
31	0.769	1.202	71.242						
32	0.764	1.194	72.437						
33	0.757	1.182	73.619						
34	0.748	1.168	74.787						
35	0.744	1.162	75.950						
36	0.735	1.149	77.099						
37	0.729	1.139	78.237						
38	0.723	1.129	79.367						
39	0.708	1.106	80.472						
40	0.704	1.100	81.573						
41	0.703	1.098	82.671						
42	0.693	1.082	83.753						
43	0.686	1.071	84.824						
44	0.675	1.054	85.879						

**Table H21 (Cont.)  
Total Variance Explained for Grade 8 Mathematics Form 1**

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 %
45	0.666	1.041	86.920						
46	0.663	1.036	87.956						
47	0.651	1.017	88.972						
48	0.637	0.995	89.968						
49	0.628	0.982	90.950						
50	0.609	0.951	91.901						
51	0.606	0.946	92.847						
52	0.581	0.908	93.755						
53	0.564	0.881	94.636						
54	0.540	0.844	95.480						
55	0.528	0.825	96.305						
56	0.411	0.642	96.948						
57	0.376	0.587	97.535						
58	0.350	0.547	98.082						
59	0.295	0.461	98.543						
60	0.237	0.371	98.913						
61	0.217	0.339	99.253						
62	0.177	0.277	99.530						
63	0.153	0.239	99.769						
64	0.148	0.231	100.000						

**Table H22**  
**Factor Loadings – Grade 8 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
21	01		<b>0.376</b>			
29	01		0.237			
37	01	0.238	<b>0.401</b>		<b>0.623</b>	
42	01	0.261	0.280			
43	01		0.238			
49	01	<b>0.573</b>		0.213	0.228	
50	01		<b>0.532</b>			
57	01	<b>0.322</b>				
58	01	<b>0.376</b>				
60	01	<b>0.496</b>	0.255		<b>0.431</b>	
63	01	<b>0.352</b>	<b>0.393</b>		<b>0.346</b>	
64	01	0.215	<b>0.351</b>			
66	01	<b>0.419</b>				
75	01	<b>0.611</b>			0.230	
16	02/03		<b>0.524</b>			
27	02/03	0.289	<b>0.380</b>	0.203		
32	02/03	<b>0.353</b>		0.223		
33	02/03	0.282		<b>0.326</b>		
35	02/03		<b>0.407</b>			
40	02/03	0.213	<b>0.355</b>	<b>0.312</b>		
44	02/03		<b>0.333</b>	<b>0.326</b>		
47	02/03	0.260	<b>0.307</b>			
51	02/03	<b>0.347</b>		<b>0.775</b>		
56	02/03	0.222				
61	02/03	<b>0.402</b>		<b>0.421</b>		
70	02/03	<b>0.623</b>		<b>0.303</b>		
13	04/05		<b>0.378</b>			
36	04/05		<b>0.471</b>			
39	04/05		<b>0.400</b>			
46	04/05	0.221	0.285			
48	04/05	<b>0.304</b>	0.203			
52	04/05	0.231	0.238			
53	04/05	0.242				
54	04/05	<b>0.305</b>	0.203			
59	04/05	0.279	0.223			
65	04/05		0.284			<b>0.619</b>
69	04/05	0.243	0.219			
72	04/05	0.221	<b>0.466</b>			
73	04/05	<b>0.342</b>	<b>0.369</b>			
74	04/05	<b>0.442</b>	0.299	0.282		
76	04/05	<b>0.569</b>	<b>0.311</b>			

**Table H22 (Cont.)**  
**Factor Loadings – Grade 8 Mathematics Form 1 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
2	06	<b>0.323</b>			0.206	
3	06	<b>0.385</b>			0.207	
6	06	0.271	0.269			
7	06	0.266	0.291			
20	06	0.297		0.237		
26	06	0.227	0.213			
34	06	0.230	0.267		0.201	
38	06	<b>0.310</b>	0.263			
41	06	<b>0.423</b>	0.238			
45	06	<b>0.455</b>			0.252	
55	06	0.276		0.233	0.207	
62	06	<b>0.327</b>	0.233		0.230	
67	06	0.207				
68	06	0.227	0.230			
71	06	<b>0.470</b>	<b>0.332</b>			
37	07	0.270	<b>0.431</b>	0.205	<b>0.644</b>	
46	07	<b>0.347</b>	<b>0.355</b>	0.267		
51	07	<b>0.382</b>	0.258	<b>0.694</b>	0.238	
60	07	<b>0.446</b>	<b>0.342</b>		<b>0.480</b>	
65	07	0.253	<b>0.395</b>			<b>0.796</b>
70	07	<b>0.643</b>	0.249	<b>0.348</b>		
75	07	<b>0.596</b>	0.214	0.258	0.296	
76	07	<b>0.498</b>	<b>0.427</b>			
% Variance Explained		11.550	8.564	4.697	4.189	2.139

**Table H23**  
**Total Variance Explained for Grade 8 Mathematics Form 2**

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	16.254	25.397	25.397	15.657	24.465	24.465	6.643	10.380	10.380
2	2.130	3.329	28.725	1.568	2.450	26.914	4.939	7.718	18.097
3	1.339	2.093	30.818	1.051	1.643	28.557	3.457	5.402	23.500
4	1.290	2.016	32.834	0.789	1.233	29.790	2.985	4.664	28.164
5	1.268	1.982	34.815	0.727	1.136	30.925	1.768	2.762	30.925
6	1.139	1.780	36.595						
7	1.115	1.743	38.338						
8	1.044	1.631	39.969						
9	1.003	1.568	41.537						
10	0.965	1.509	43.045						
11	0.960	1.500	44.546						
12	0.949	1.482	46.028						
13	0.934	1.460	47.488						
14	0.928	1.450	48.938						
15	0.911	1.423	50.361						
16	0.897	1.402	51.763						
17	0.885	1.384	53.146						
18	0.880	1.375	54.521						
19	0.865	1.352	55.873						
20	0.864	1.350	57.222						
21	0.840	1.313	58.535						
22	0.836	1.307	59.842						
23	0.833	1.302	61.144						
24	0.825	1.289	62.433						
25	0.811	1.268	63.701						
26	0.806	1.259	64.960						
27	0.791	1.236	66.196						
28	0.783	1.223	67.419						
29	0.775	1.210	68.629						
30	0.771	1.204	69.833						
31	0.766	1.197	71.030						
32	0.761	1.189	72.219						
33	0.754	1.177	73.397						
34	0.748	1.169	74.565						
35	0.743	1.160	75.726						
36	0.737	1.152	76.877						
37	0.731	1.142	78.019						
38	0.711	1.111	79.130						
39	0.702	1.097	80.227						
40	0.697	1.089	81.316						
41	0.695	1.085	82.401						
42	0.690	1.078	83.479						
43	0.683	1.067	84.547						
44	0.678	1.060	85.607						

**Table H23 (Cont.)  
Total Variance Explained for Grade 8 Mathematics Form 2**

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 %
45	0.674	1.053	86.660						
46	0.661	1.033	87.692						
47	0.654	1.022	88.714						
48	0.642	1.003	89.717						
49	0.633	0.990	90.707						
50	0.630	0.984	91.691						
51	0.601	0.939	92.630						
52	0.588	0.918	93.549						
53	0.549	0.858	94.407						
54	0.546	0.854	95.261						
55	0.521	0.814	96.075						
56	0.511	0.799	96.874						
57	0.485	0.758	97.631						
58	0.347	0.542	98.173						
59	0.293	0.458	98.631						
60	0.250	0.391	99.022						
61	0.179	0.280	99.303						
62	0.158	0.247	99.550						
63	0.146	0.228	99.778						
64	0.142	0.222	100.000						



**Table H24**  
**Factor Loadings – Grade 8 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
21	01		<b>0.345</b>			
29	01	0.216	0.215			
36	01	0.284	0.263	0.218		
38	01		0.221			
39	01		<b>0.354</b>	<b>0.675</b>		
46	01	<b>0.334</b>				
48	01	<b>0.362</b>	0.266			
51	01	<b>0.515</b>	0.255	0.256		
57	01	<b>0.367</b>		<b>0.308</b>		
61	01	0.224				
62	01	0.226	<b>0.413</b>	<b>0.446</b>		
63	01	<b>0.369</b>	<b>0.341</b>	<b>0.440</b>		
64	01	0.263		0.224		
66	01	0.225		0.228		
75	01	<b>0.531</b>		0.260	0.230	
16	02/03		<b>0.452</b>			
27	02/03	<b>0.309</b>	<b>0.323</b>			
33	02/03	0.229				
35	02/03	<b>0.332</b>				
41	02/03	0.284	0.219			
42	02/03	0.221	0.246		0.278	
47	02/03	<b>0.305</b>			<b>0.801</b>	
50	02/03	<b>0.410</b>			<b>0.380</b>	
59	02/03	<b>0.374</b>			<b>0.394</b>	
68	02/03	0.231				
70	02/03	<b>0.590</b>			<b>0.323</b>	
73	02/03	<b>0.324</b>	0.232	0.233	<b>0.332</b>	
13	04/05		<b>0.312</b>			
32	04/05	0.299				<b>0.800</b>
34	04/05	0.246	0.264			
37	04/05	<b>0.376</b>	<b>0.355</b>	0.207		
45	04/05	0.238	<b>0.414</b>			
49	04/05	<b>0.482</b>			0.257	
52	04/05	0.216	0.219			
53	04/05	<b>0.304</b>				
54	04/05					
58	04/05	0.288	0.206			
67	04/05		<b>0.338</b>			
69	04/05					
71	04/05	0.246	<b>0.435</b>			
74	04/05	0.245	<b>0.427</b>			
76	04/05		<b>0.703</b>			

**Table H24 (Cont.)**  
**Factor Loadings – Grade 8 Mathematics Form 2 (Rotated Factor Matrix)**

Item	Content Standard	Factor				
		1	2	3	4	5
2	06	<b>0.314</b>		0.230		
3	06	<b>0.378</b>		0.202		
6	06	0.278	0.247	0.218		
7	06	0.276	0.269			
20	06	0.297				
26	06	0.269				
40	06	<b>0.339</b>				
43	06	<b>0.445</b>				
44	06	<b>0.394</b>		<b>0.317</b>		
55	06	0.255				
56	06	0.290		0.256		
60	06	<b>0.446</b>	0.227			
65	06	0.209	0.247	0.216		
72	06	<b>0.499</b>	0.294	0.221		
32	07	<b>0.333</b>				<b>0.821</b>
39	07	0.203	<b>0.392</b>	<b>0.692</b>	0.211	
47	07	<b>0.326</b>	0.256	0.271	<b>0.730</b>	
58	07	<b>0.412</b>	<b>0.322</b>	0.204	0.226	
63	07	0.273	<b>0.425</b>	<b>0.438</b>		
70	07	<b>0.606</b>	0.223	0.244	<b>0.357</b>	
75	07	<b>0.519</b>	0.224	<b>0.337</b>	0.298	
76	07		<b>0.736</b>			
% Variance Explained		10.380	7.718	5.402	4.664	2.762

**Table H25**  
**Total Variance Explained for Grade 10 Reading Form A**

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	11.614	21.913	21.913	10.909	20.584	20.584	4.703	8.873	8.873
2	1.346	2.539	24.452	0.694	1.310	21.894	4.139	7.810	16.683
3	1.289	2.433	26.885	0.558	1.052	22.946	3.320	6.264	22.946
4	1.162	2.192	29.077						
5	1.129	2.130	31.207						
6	1.056	1.993	33.200						
7	1.046	1.974	35.174						
8	1.021	1.926	37.099						
9	0.999	1.884	38.984						
10	0.987	1.862	40.845						
11	0.955	1.803	42.648						
12	0.928	1.751	44.398						
13	0.919	1.733	46.132						
14	0.904	1.706	47.837						
15	0.895	1.689	49.527						
16	0.882	1.664	51.191						
17	0.878	1.656	52.847						
18	0.867	1.636	54.483						
19	0.857	1.617	56.100						
20	0.853	1.609	57.709						
21	0.844	1.592	59.301						
22	0.835	1.575	60.876						
23	0.815	1.537	62.413						
24	0.811	1.531	63.944						
25	0.802	1.513	65.457						
26	0.794	1.498	66.955						
27	0.781	1.474	68.430						
28	0.776	1.464	69.893						
29	0.770	1.453	71.346						
30	0.765	1.444	72.791						
31	0.751	1.416	74.207						
32	0.745	1.406	75.613						
33	0.740	1.395	77.009						
34	0.734	1.384	78.393						
35	0.728	1.374	79.767						
36	0.721	1.360	81.127						
37	0.713	1.346	82.473						
38	0.707	1.335	83.807						
39	0.688	1.297	85.105						
40	0.683	1.288	86.393						
41	0.661	1.248	87.640						
42	0.658	1.241	88.881						
43	0.646	1.218	90.099						
44	0.628	1.185	91.284						

**Table H25 (Cont.)**  
**Total Variance Explained for Grade 10 Reading Form A**

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 %
45	0.616	1.162	92.446						
46	0.609	1.149	93.596						
47	0.570	1.076	94.672						
48	0.549	1.036	95.708						
49	0.535	1.010	96.718						
50	0.519	0.979	97.697						
51	0.481	0.908	98.605						
52	0.400	0.755	99.360						
53	0.339	0.640	100.000						

**Table H26**  
**Factor Loadings – Grade 10 Reading Form A (Rotated Factor Matrix)**

Item	Content Standard	Factor		
		1	2	3
3	01	<b>0.388</b>		
4	01	<b>0.434</b>		
23	01	<b>0.383</b>	<b>0.338</b>	0.246
25	01	0.242	<b>0.373</b>	0.204
32	01		0.218	
33	01	0.232	0.290	
34	01		<b>0.308</b>	
37	01	0.252	0.257	
43	01	<b>0.494</b>	0.278	
44	01	<b>0.370</b>	0.214	
45	01	<b>0.496</b>	0.240	0.212
47	01	<b>0.326</b>	<b>0.320</b>	
48	01	<b>0.323</b>	<b>0.347</b>	0.228
67	01	0.210		
70	01	<b>0.342</b>		0.238
71	01	<b>0.327</b>		0.209
13	02	<b>0.346</b>	0.280	
14	02	<b>0.315</b>	<b>0.345</b>	
15	02		0.286	
16	02			
17	02	0.286	<b>0.492</b>	0.208
22	02			
24	02	0.224	0.274	0.206
26	02	<b>0.332</b>	<b>0.390</b>	0.253
27	02		<b>0.360</b>	
46	02		0.292	
72	02	<b>0.420</b>		0.262
73	02	<b>0.531</b>		<b>0.334</b>
74	02	<b>0.307</b>	0.289	0.217
75	02	0.267	0.283	<b>0.681</b>
76	02	0.209	0.218	0.211
77	02	0.230	<b>0.328</b>	
78	02	<b>0.306</b>	0.249	0.276
79	02	<b>0.329</b>	0.233	<b>0.654</b>

**Table H26 (Cont.)**  
**Factor Loadings – Grade 10 Reading Form A (Rotated Factor Matrix)**

Item	Content Standard	Factor		
		1	2	3
1	03	0.227	0.245	
2	03	0.226	<b>0.349</b>	
5	03		<b>0.428</b>	
6	03	<b>0.374</b>		
35	03	<b>0.459</b>	<b>0.333</b>	
36	03	0.274	0.260	
38	03	<b>0.311</b>	0.241	
51	03	<b>0.358</b>	0.263	0.243
52	03	0.248	0.299	
53	03		0.225	
54	03	0.207		
61	03		<b>0.339</b>	
62	03	<b>0.337</b>		0.239
63	03	<b>0.312</b>	0.271	<b>0.655</b>
64	03	0.205		
65	03	<b>0.303</b>	<b>0.413</b>	0.254
66	03	<b>0.336</b>	<b>0.308</b>	0.290
68	03		0.202	
69	03	0.244	<b>0.384</b>	<b>0.539</b>
% Variance Explained		8.873	7.810	6.264