Table 7.1
Categorical Concurrence Between Standards and Assessment as Rated by Six Reviewers
Florida Grade 7 Mathematics
Number of Assessment Items – 44

Standards			Level by Objective			Hits		Cat. Concurr.
Title	Goals #	Objs #	Level	# of objs by Level	% w/in std by Level	Mean	S.D.	
A - Number Sense, Concepts, and Operations	5	11	1 2 3	6 4 1	54 36 9	12.67	4.64	YES
B - Measurement	4	9	2	9	100	11	1.83	YES
C - Geometry and Spatial Sense	3	5	1 2 3	2 2 1	40 40 20	9.17	2.11	YES
D - Algebraic Thinking	2	4	2 3	3 1	75 25	12.67	2.05	YES
E - Data Analysis and Probability	3	7	1 2 3	1 3 3	14 42 42	7.83	2.27	YES
Total	17	36	1 2 3	9 21 6	25 58 16	53.33	6.16	

Table 7.2
Depth-of-Knowledge Consistency Between Standards and Assessment as Rated by Six Reviewers
Florida Grade 7 Mathematics
Number of Assessment Items - 44

Standards			Hits		Level of Item w.r.t. Standard						DOK Consistency
					% Under		% At		% Above		
Title	Goals #	Objs #	M	S.D.	M	S.D.	M	S.D.	M	S.D.	
A - Number Sense, Concepts, and Operations	5	11	12.67	4.64	27	39	59	43	15	33	YES
B - Measurement	4	9	11	1.83	21	33	79	33	0	0	YES
C - Geometry and Spatial Sense	3	5	9.17	2.11	17	33	66	34	16	25	YES
D - Algebraic Thinking	2	4	12.67	2.05	64	33	34	31	2	7	NO
E - Data Analysis and Probability	3	7	7.83	2.27	60	48	38	47	2	10	NO
Total	17	36	53.33	6.16	36	42	57	42	7	21	

Table 7.3
Range-of-Knowledge Correspondence and Balance of Representation Between Standards and Assessment as Rated by Six Reviewers
Florida Grade 7 Mathematics
Number of Assessment Items - 44

Standards			Hits		Range of Objectives				Rng. of Know.	Balance Index				Bal. of Represent.
					# Objs Hit		% of Total			% Hits in Std/Ttl Hits		Index		
Title	Goals #	Objs #	Mean	S.D.	Mean	S.D.	Mean	S.D.		Mean	S.D.	Mean	S.D.	
A - Number Sense, Concepts, and Operations	5	11	12.67	4.64	5.5	1.5	50	14	WEAK	23	7	0.69	0.07	WEAK
B - Measurement	4	9	11	1.83	5.33	0.47	59	5	YES	21	4	0.76	0.03	YES
C - Geometry and Spatial Sense	3	5	9.17	2.11	3.5	0.5	70	10	YES	17	3	0.78	0.09	YES
D - Algebraic Thinking	2	4	12.67	2.05	3.67	0.47	92	12	YES	24	2	0.79	0.12	YES
E - Data Analysis and Probability	3	7	7.83	2.27	3.83	0.69	55	10	YES	15	5	0.80	0.05	YES
Total	17	36	53.33	6.16	4.37	1.20	65	18		20	6	0.76	0.09	

Table 7.4
Summary of Attainment of Acceptable Alignment Level on Four Content Focus Criteria as Rated by Six Reviewers
Florida Grade 7 Mathematics
Number of Assessment Items - 44

Standards	Alignment Criteria			
	Categorical Concurrence	Depth-of-Knowledge Consistency	Range of Knowledge	Balance of Representation
A - Number Sense, Concepts, and Operations	YES	YES	WEAK	WEAK
B - Measurement	YES	YES	YES	YES
C - Geometry and Spatial Sense	YES	YES	YES	YES
D - Algebraic Thinking	YES	NO	YES	YES
E - Data Analysis and Probability	YES	NO	YES	YES

Table 7.5
Source-of-Challenge Issues by Reviewer
Florida Grade 7 Mathematics

Item Number	Comments by Reviewer

Table 7.6
Depth-of-Knowledge Levels by Item and Reviewers
Intraclass Correlation
Florida Grade 7 Mathematics

Item	Rater 1	Rater 2	Rater 3	Rater 4	Rater 5	Rater 6
1	1	1	1	1	1	1
2	1	1	1	1	1	1
3	1	1	1	1	1	2
4	2	2	2	2	2	2
5	2	1	1	1	1	1
6						
7						
8	2	2	1	2	2	2
9	1	2	1	1	1	2
10	1	1	2	1	1	1
11	1	2	2	2	2	2
12	2	2	2	2	2	2
13	2	1	1	1	1	2
14	1	2	2	2	2	3
15	2	3	1	2	2	1
16	1	1	1	2	2	2
17	1	1	1	1	1	1
18	1	2	1	1	1	1
19	1	1	1	1	1	1
20	1	2	1	2	1	2
21	1	1	1	1	1	1
22	2	1	2	2	2	2
23						
24						
25	2	2	2	2	2	2
26	2	2	1	2	1	2
27	2	2	2	2	2	2
28	1	2	2	2	2	1
29	1	2	1	2	2	2
30	1	1	1	1	2	1
31	2	2	1	2	2	2
32						
33						
34	2	1	1	2	1	2
35	2	2	2	2	2	2
36	2	2	2	2	2	2
37	2	1	1	2	2	2
38	2	2	2	2	2	2
39	2	2	2	2	2	2

Table 7.6
Depth-of-Knowledge Levels by Item and Reviewers
Intraclass Correlation
Florida Grade 7 Mathematics

Item	Rater 1	Rater 2	Rater 3	Rater 4	Rater 5	Rater 6
40	1	1	2	2	2	1
41	3	2	2	2	2	2
42	2	2	2	2	2	2
43	2	1	1	1	2	1
44						
45						
46	2	2	2	2	1	2
47	2	1	1	1	1	1
48	1	1	1	1	1	1
49	1	1	1	1	2	1
50	1	1	1	1	1	1
51	2	1	2	2	2	2
52	1	1	1	1	1	1

***Intraclass Correlation**: 0.8455*
***Pairwise Comparison**: 0.7242*

Table 7.7

Notes by Reviewer

Florida Grade 7 Mathematics

Item Number	Comments by Reviewer
5	For 7th grade--very low
18	Lots of these [types of problems]
27	There really is no matching standard. E331 is a stretch.
27	circle graph doesn't fit
28	There is no standard that is a good fit. A stretch would be E331
28	doesn't fit
30	real world?
36	Standard doesn't fit well
36	poor fit
39	higher than benchmark
49	Poor fit with standard
49	doesn't fit
51	Break E331 up, too large-encompassing
52	too easy

Table 7.8
DOK Levels and Objectives Coded by Each Reviewer
Florida Grade 7 Mathematics

Item	DOK0	PObj0	S1Obj0	DOK1	PObj1	S1Obj1	S2Obj1	DOK2	PObj2	S1Obj2	DOK3	PObj3	S1Obj3	DOK4	PObj4	S1Obj4	S2Obj4	DOK5	PObj5	S1Obj5	S2Obj5
1	1	C.2.3.1		1	C.2.3.1			1	C.2.3.1		1	C.2.3.1		1	C.2.3.1			1	C.2.3.1		
2	1	C.2.3.1		1	C.2.3.1			1	C.2.3.1		1	C.2.3.1		1	C.2.3.1			1	C.2.3.1		
3	1	C.1.3.1		1	C.1.3.1			1	C.1.3.1		1	C.1.3.1		1	C.1.3.1			2	C.1.3.1		
4	2	A.3.3.3		2	A.3.3.2	A.3.3.1	A.3.3.3	2	A.3.3.3		2	A.3.3.3		2	A.3.3.2	A.3.3.3		2	A.3.3.3		
5	2	A.1.3.2		1	A.3.3.2			1	A.3.3.3		1	A.3.3.3	A.1.3.4	1	A.3.3.2			1	A.1.3.4		
6																					
7																					
8	2	A.3.3.3		2	A.3.3.3	A.3.3.2		1	A.3.3.3		2	A.3.3.3		2	A.3.3.3	A.3.3.2		2	D.2.3.1		
9	1	D.2.3.1		2	D.2.3.2			1	D.2.3.2		1	D.2.3.1		1	D.2.3.2			2	D.2.3.1		
10	1	D.2.3.1		1	D.2.3.2			2	D.1.3.1		1	D.2.3.1		1	D.2.3.1			1	D.2.3.1		
11	1	A.4.3.1		2	A.4.3.1			2	B.3.3.1		2	B.3.3.1		2	A.4.3.1			2	B.1.3.2		
12	2	B.1.3.3		2	B.1.3.3	B.1.3.1		2	B.1.3.1		2	B.1.3.1	B.2.3.2	2	B.3.3.1			2	B.1.3.1		
13	2	D.2.3.2		1	D.1.3.1	D.2.3.1		1	D.1.3.1		1	D.2.3.1		1	A.3.3.3			2	A.3.3.2		
14	1	E.1.3.1		2	D.1.3.1	D.2.3.1		2	D.1.3.2		2	D.1.3.1		2	D.1.3.2	A.3.3.1	D.2.3.2	3	D.1.3.1		
15	2	E.1.3.1		3	D.1.3.2			1	A.3.3.3		2	D.1.3.2		2	A.3.3.3			1	A.3.3.2		
16	1	A.3.3.3		1	A.3.3.1			1	A.3.3.1		2	A.1.3.3	A.3.3.1	2	A.3.3.1			2	A.1.3.2		
17	1	D.2.3.2		1	D.2.3.1			1	D.2.3.2	A.3.3.3	1	D.2.3.1		1	D.2.3.2	A.3.3.3		1	A.1.3.3		
18	1	D.2.3.2		2	D.2.3.1			1	D.2.3.2	A.3.3.3	1	D.2.3.1		1	D.2.3.2	A.3.3.3		1	A.1.3.3		
19	1	C.2.3.1		1	C.2.3.1	B.1.3.2		1	C.2.3.1		1	C.2.3.1		1	C.2.3.1			1	C.2.3.1		
20	1	C.3.3.2		2	C.3.3.2			1	C.3.3.2		2	C.3.3.2	C.3.3.1	1	C.3.3.1	C.3.3.2		2	C.3.3.2	A.3.3.2	

Table 7.8
DOK Levels and Objectives Coded by Each Reviewer
Florida Grade 7 Mathematics

Item	DOK0	PObj0	S1Obj0	DOK1	PObj1	S1Obj1	S2Obj1	DOK2	PObj2	S1Obj2	DOK3	PObj3	S1Obj3	DOK4	PObj4	S1Obj4	S2Obj4	DOK5	PObj5	S1Obj5	S2Obj5
21	1	D.2.3.2		1	D.2.3.2			1	D.2.3.2		1	D.2.3.1		1	D.2.3.2	A.3.3.3		1	D.2.3.1	A.1.3.3	
22	2	D.2.3.1	D.1.3.1	1	D.2.3.1			2	D.1.3.1		2	C.3.3.1	C.3.3.2	2	C.3.3.2			2	D.2.3.1		
23																					
24																					
25	2	B.1.3.4		2	A.3.3.3	A.3.3.2		2	B.1.3.4		2	A.3.3.2	B.1.3.4	2	B.2.3.2			2	B.1.3.4		
26	2	D.1.3.1		2	E.3.3.1			1	D.1.3.2		2	D.1.3.1	D.1.3.2	1	A.3.3.2	A.5.3.1		2	D.1.3.1		
27	2	E.3.3.1		2	A.4.3.1	E.3.3.1		2	E.3.3.1		2	A.4.3.1	E.3.3.1	2	A.4.3.1	E.3.3.1		2	A.4.3.1		
28	1	E.2.3.1		2	E.2.3.1	E.2.3.2		2	E.3.3.1		2	E.3.3.1	E.1.3.3	2	E.3.3.1			1	A.3.3.2		
29	1	B.2.3.2		2	B.2.3.2	B.3.3.1		1	B.2.3.2		2	B.2.3.2		2	B.2.3.2			2	B.2.3.2		
30	1	D.1.3.1		1	D.2.3.2	D.2.3.1		1	D.2.3.1		1	D.1.3.1		2	D.2.3.2			1	A.1.3.2		
31	2	D.2.3.1		2	D.2.3.1	D.2.3.2		1	D.2.3.1		2	D.2.3.1		2	D.2.3.2			2	D.2.3.2		
32																					
33																					
34	2	B.1.3.3		1	B.1.3.1			1	B.1.3.1		2	B.1.3.1		1	C.1.3.1			2	B.1.3.1		
35	2	B.1.3.4		2	A.1.3.4			2	B.2.3.2	B.1.3.4	2	B.1.3.1	B.1.3.4	2	B.2.3.2	B.1.3.4		2	B.1.3.4		
36	2	B.1.3.4		2	A.3.3.2	A.3.3.1		2	B.2.3.2		2	B.1.3.3	B.1.3.1	2	B.2.3.2			2	B.1.3.1	B.1.3.3	
37	2	B.1.3.1		1	B.1.3.1	A.4.3.1		1	B.1.3.1		2	B.1.3.1		2	B.1.3.1			2	B.1.3.1		
38	2	C.2.3.1		2	C.2.3.1	C.3.3.2		2	C.2.3.1	C.3.3.2	2	C.2.3.1	C.3.3.2	2	C.2.3.1	C.3.3.1		2	C.2.3.1		
39	2	C.1.3.1		2	A.3.3.2			2	C.2.3.1		2	C.3.3.1		2	C.2.3.1			2	C.2.3.1		
40	1	E.2.3.1		1	E.2.3.2			2	E.2.3.1		2	E.3.3.1	E.1.3.3	2	E.2.3.1			1	B.1.3.2		
41	3	E.3.3.1		2	E.3.3.2			2	E.3.3.2		2	E.3.3.2		2	E.3.3.2			2	E.3.3.2		

Table 7.8

DOK Levels and Objectives Coded by Each Reviewer

Florida Grade 7 Mathematics

Item	DOK0	PObj0	S1Obj0	DOK1	PObj1	S1Obj1	S2Obj1	DOK2	PObj2	S1Obj2	DOK3	PObj3	S1Obj3	DOK4	PObj4	S1Obj4	S2Obj4	DOK5	PObj5	S1Obj5	S2Obj5
42	2	B.1.3.2		2	A.3.3.3			2	B.1.3.2		2	B.1.3.2	B.2.3.2	2	B.3.3.1			2	B.1.3.2	D.2.3.1	
43	2	B.1.3.4		1	B.1.3.4			1	B.1.3.4	B.2.3.2	1	A.3.3.3	B.1.3.4	2	B.2.3.1	A.3.3.3		1	B.1.3.4		
44																					
45																					
46	2	E.3.3.1		2	D.1.3.2			2	A.3.3.3		2	A.3.3.3		1	D.1.3.1	A.3.3.3		2	D.1.3.1		
47	2	E.3.3.1		1	E.1.3.2			1	E.1.3.2		1	E.1.3.2		1	E.1.3.2			1	E.1.3.2		
48	1	A.1.3.1		1	A.2.3.1			1	A.2.3.1		1	A.2.3.1		1	A.2.3.1			1	A.2.3.1		
49	1	E.3.3.1		1	E.3.3.1			1	D.1.3.2		1	D.1.3.2		2	D.1.3.2			1	D.1.3.2		
50	1	E.3.3.1		1	E.1.3.2			1	E.1.3.2		1	E.1.3.2		1	E.1.3.2			1	E.1.3.2		
51	2	E.3.3.1		1	E.3.3.1			2	E.3.3.1		2	D.1.3.1	D.1.3.2	2	E.3.3.1			2	E.3.3.1		
52	1	B.1.3.2		1	B.1.3.2			1	C.1.3.1		1	C.1.3.1		1	C.3.3.1			1	C.3.3.1		

Objective Pairwise Comparison: *0.4308*
Standard Pairwise Comparison: *0.7371*

Table 7.9
Objectives Coded to Each Item by Reviewers
Florida Grade 7 Mathematics

Low (L)	Low – Medium (LM)	Medium (M)	Medium – High (MH)	High (H)
0	>0 – < 6.153846	6.153846	>6.153846 - <10	10

1 (M)	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1			
2 (M)	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1			
3 (M)	C.1. 3.1	C.1. 3.1	C.1. 3.1	C.1. 3.1	C.1. 3.1	C.1. 3.1			
4 (H)	A.3. 3.1	A.3. 3.2	A.3. 3.2	A.3. 3.3	A.3. 3.3	A.3. 3.3	A.3. 3.3	A.3. 3.3	A.3. 3.3
5 (MH)	A.1. 3.2	A.1. 3.4	A.1. 3.4	A.3. 3.2	A.3. 3.2	A.3. 3.3	A.3. 3.3		
6									
7									
8 (MH)	A.3. 3.2	A.3. 3.2	A.3. 3.3	A.3. 3.3	A.3. 3.3	A.3. 3.3	A.3. 3.3	D.2. 3.1	
9 (M)	D.2. 3.1	D.2. 3.1	D.2. 3.1	D.2. 3.2	D.2. 3.2	D.2. 3.2			
10 (M)	D.1. 3.1	D.2. 3.1	D.2. 3.1	D.2. 3.1	D.2. 3.1	D.2. 3.2			
11 (M)	A.4. 3.1	A.4. 3.1	A.4. 3.1	B.1. 3.2	B.3. 3.1	B.3. 3.1			
12 (MH)	B.1. 3.1	B.1. 3.1	B.1. 3.1	B.1. 3.1	B.1. 3.3	B.1. 3.3	B.2. 3.2	B.3. 3.1	
13 (MH)	A.3. 3.2	A.3. 3.3	D.1. 3.1	D.1. 3.1	D.2. 3.1	D.2. 3.1	D.2. 3.2		
14 (H)	A.3. 3.1	D.1. 3.1	D.1. 3.1	D.1. 3.1	D.1. 3.2	D.1. 3.2	D.2. 3.1	D.2. 3.2	E.1. 3.1
15 (M)	A.3. 3.2	A.3. 3.3	A.3. 3.3	D.1. 3.2	D.1. 3.2	E.1. 3.1			
16 (MH)	A.1. 3.2	A.1. 3.3	A.3. 3.1	A.3. 3.1	A.3. 3.1	A.3. 3.1	A.3. 3.3		
17 (MH)	A.1. 3.3	A.3. 3.3	A.3. 3.3	D.2. 3.1	D.2. 3.1	D.2. 3.2	D.2. 3.2	D.2. 3.2	
18 (MH)	A.1. 3.3	A.3. 3.3	A.3. 3.3	D.2. 3.1	D.2. 3.1	D.2. 3.2	D.2. 3.2	D.2. 3.2	
19 (MH)	B.1. 3.2	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1		

Table 7.9
Objectives Coded to Each Item by Reviewers
Florida Grade 7 Mathematics

20 (H)	A.3. 3.2	C.3. 3.1	C.3. 3.1	C.3. 3.2	C.3. 3.2	C.3. 3.2	C.3. 3.2	C.3. 3.2	C.3. 3.2	
21 (MH)	A.1. 3.3	A.3. 3.3	D.2. 3.1	D.2. 3.1	D.2. 3.2	D.2. 3.2	D.2. 3.2	D.2. 3.2		
22 (MH)	C.3. 3.1	C.3. 3.2	C.3. 3.2	D.1. 3.1	D.1. 3.1	D.2. 3.1	D.2. 3.1	D.2. 3.1		
23										
24										
25 (MH)	A.3. 3.2	A.3. 3.2	A.3. 3.3	B.1. 3.4	B.1. 3.4	B.1. 3.4	B.1. 3.4	B.2. 3.2		
26 (MH)	A.3. 3.2	A.5. 3.1	D.1. 3.1	D.1. 3.1	D.1. 3.1	D.1. 3.2	D.1. 3.2	E.3. 3.1		
27 (H)	A.4. 3.1	A.4. 3.1	A.4. 3.1	A.4. 3.1	E.3. 3.1	E.3. 3.1	E.3. 3.1	E.3. 3.1	E.3. 3.1	
28 (MH)	A.3. 3.2	E.1. 3.3	E.2. 3.1	E.2. 3.1	E.2. 3.2	E.3. 3.1	E.3. 3.1	E.3. 3.1		
29 (MH)	B.2. 3.2	B.2. 3.2	B.2. 3.2	B.2. 3.2	B.2. 3.2	B.2. 3.2	B.3. 3.1			
30 (MH)	A.1. 3.2	D.1. 3.1	D.1. 3.1	D.2. 3.1	D.2. 3.1	D.2. 3.2	D.2. 3.2			
31 (MH)	D.2. 3.1	D.2. 3.1	D.2. 3.1	D.2. 3.1	D.2. 3.2	D.2. 3.2	D.2. 3.2			
32										
33										
34 (M)	B.1. 3.1	B.1. 3.1	B.1. 3.1	B.1. 3.1	B.1. 3.3	C.1. 3.1				
35 (MH)	A.1. 3.4	B.1. 3.1	B.1. 3.4	B.1. 3.4	B.1. 3.4	B.1. 3.4	B.1. 3.4	B.2. 3.2	B.2. 3.2	
36 (MH)	A.3. 3.1	A.3. 3.2	B.1. 3.1	B.1. 3.1	B.1. 3.3	B.1. 3.3	B.1. 3.4	B.2. 3.2	B.2. 3.2	
37 (MH)	A.4. 3.1	B.1. 3.1	B.1. 3.1	B.1. 3.1	B.1. 3.1	B.1. 3.1	B.1. 3.1			
38 (H)	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.3. 3.1	C.3. 3.2	C.3. 3.2	C.3. 3.2
39 (M)	A.3. 3.2	C.1. 3.1	C.2. 3.1	C.2. 3.1	C.2. 3.1	C.3. 3.1				
40 (MH)	B.1. 3.2	E.1. 3.3	E.2. 3.1	E.2. 3.1	E.2. 3.1	E.2. 3.2	E.3. 3.1			
41 (M)	E.3.3 .1	E.3. 3.2	E.3. 3.2	E.3. 3.2	E.3. 3.2	E.3. 3.2				

Table 7.9
Objectives Coded to Each Item by Reviewers
Florida Grade 7 Mathematics

42 (MH)	A.3.3.3	B.1.3.2	B.1.3.2	B.1.3.2	B.1.3.2	B.2.3.2	B.3.3.1	D.2.3.1	
43 (MH)	A.3.3.3	A.3.3.3	B.1.3.4	B.1.3.4	B.1.3.4	B.1.3.4	B.1.3.4	B.2.3.1	B.2.3.2
44									
45									
46 (MH)	A.3.3.3	A.3.3.3	A.3.3.3	D.1.3.1	D.1.3.1	D.1.3.2	E.3.3.1		
47 (M)	E.1.3.2	E.1.3.2	E.1.3.2	E.1.3.2	E.1.3.2	E.3.3.1			
48 (M)	A.1.3.1	A.2.3.1	A.2.3.1	A.2.3.1	A.2.3.1	A.2.3.1			
49 (M)	D.1.3.2	D.1.3.2	D.1.3.2	D.1.3.2	E.3.3.1	E.3.3.1			
50 (M)	E.1.3.2	E.1.3.2	E.1.3.2	E.1.3.2	E.1.3.2	E.3.3.1			
51 (MH)	D.1.3.1	D.1.3.2	E.3.3.1	E.3.3.1	E.3.3.1	E.3.3.1	E.3.3.1		
52 (M)	B.1.3.2	B.1.3.2	C.1.3.1	C.1.3.1	C.3.3.1	C.3.3.1			

Table 7.10
Items Coded by Reviewers to Each Objective
Florida Grade 7 Mathematics

Low (L)	Low-Medium (LM)	Medium (M)	Medium-High (MH)	High H
0	>0 - <5.423729	5.423729	>5.423729 - <29	29

A																				
A.1.3																				
A.1.3.1 (L)	48																			
A.1.3.2 (LM)	5	16	30																	
A.1.3.3 (LM)	16	17	18	21																
A.1.3.4 (LM)	5	5	35																	
A.2.3																				
A.2 .3.1 (LM)	48	48	48	48	48															
A.2.3.2																				
A.3.3																				
A.3.3.1 (M)	4	14	16	16	16	16	36													
A.3.3.2 (MH)	4	4	5	5	8	8	13	15	20	25	25	26	28	36	39					
A.3.3.3 (H)	4	4	4	4	4	4	5	5	8	8	8	8	8	13	15	15	16	17	17	18
	18	21	25	42	43	43	46	46	46											
A.4.3																				
A.4.3.1 (M)	11	11	11	27	27	27	27	37												
A.5.3																				
A.5.3.1 (L)	26																			
B																				
B.1.3																				
B.1.3.1 (MH)	12	12	12	12	34	34	34	34	35	36	36	37	37	37	37	37	37			
B.1.3.2 (MH)	11	19	40	42	42	42	42	52	52											
B.1.3.3 (M)	12	12	34	36	36															
B.1.3.4 (MH)	25	25	25	25	35	35	35	35	35	36	43	43	43	43	43					

Table 7.10
Items Coded by Reviewers to Each Objective
Florida Grade 7 Mathematics

B.2.3																				
B.2.3.1 (L)	43																			
B.2.3.2 (MH)	12	25	29	29	29	29	29	29	35	35	36	36	42	43						
B.3.3																				
B.3.3.1 (M)	11	11	12	29	42															
B.4.3																				
B.4.3.1																				
B.4.3.2																				
C																				
C.1.3																				
C.1.3.1 (MH)	3	3	3	3	3	3	34	39	52	52										
C.2.3																				
C.2.3.1 (H)	1	1	1	1	1	1	2	2	2	2	2	2	19	19	19	19	19	19	38	38
	38	38	38	38	39	39	39													
C.2.3.2																				
C.3.3																				
C.3.3.1 (M)	20	20	22	38	39	52	52													
C.3.3.2 (MH)	20	20	20	20	20	20	22	22	38	38	38									
D																				
D.1.3																				
D.1.3.1 (MH)	10	13	13	14	14	14	22	22	26	26	26	30	30	46	46	51				
D.1.3.2 (MH)	14	14	15	15	26	26	46	49	49	49	49	51								
D.2.3																				
D.2.3.1 (H)	8	9	9	9	10	10	10	10	13	13	14	17	17	18	18	21	21	22	22	22
	30	30	31	31	31	31	42													
D.2.3.2 (MH)	9	9	9	10	13	14	17	17	17	18	18	18	21	21	21	21	30	30	31	31
	31																			
E																				
E.1.3																				
E.1.3.1 (L)	14	15																		
E.1.3.2 (MH)	47	47	47	47	47	50	50	50	50	50										

Table 7.10
Items Coded by Reviewers to Each Objective
Florida Grade 7 Mathematics

E.1.3.3 (L)	28	40																		
E.2.3																				
E.2.3.1 (M)	28	28	40	40	40															
E.2.3.2 (L)	28	40																		
E.3.3																				
E.3.3.1 (MH)	26	27	27	27	27	27	28	28	28	40	41	46	47	49	49	50	51	51	51	51
	51																			
E.3.3.2 (M)	41	41	41	41	41															

Table 7.11

Number of Reviewers Coding an Item by Objective (Item Number: Number of Reviewers)
Florida Grade 7 Mathematics

Low (L)	Low-Medium (LM)	Medium (M)	Medium-High (MH)	High (H)
1	>1 - <3	3	>3 - <6	6

A											
A.1.3											
A.1.3.1	48:1 (L)										
A.1.3.2	5:1 (L)	16:1 (L)	30:1 (L)								
A.1.3.3	16:1 (L)	17:1 (L)	18:1 (L)	21:1 (L)							
A.1.3.4	5:2 (LM)	35:1 (L)									
A.2.3											
A.2.3.1	48:5 (MH)										
A.2.3.2											
A.3.3											
A.3.3.1	4:1 (L)	14:1 (L)	16:4 (MH)	36:1 (L)							
A.3.3.2	4:2 (LM)	5:2 (LM)	8:2 (LM)	13:1 (L)	15:1 (L)	20:1 (L)	25:2 (LM)	26:1 (L)	28:1 (L)	36:1 (L)	39:1 (L)
A.3.3.3	4:6 (H)	5:2 (LM)	8:5 (MH)	13:1 (L)	15:2 (LM)	16:1 (L)	17:2 (LM)	18:2 (LM)	21:1 (L)	25:1 (L)	42:1 (L)
	43:2 (LM)	46:3 (M)									
A.4.3											
A.4.3.1	11:3 (M)	27:4 (MH)	37:1 (L)								
A.5.3											
A.5.3.1	26:1 (L)										
B											

Table 7.11
Number of Reviewers Coding an Item by Objective (Item Number: Number of Reviewers)
Florida Grade 7 Mathematics

B.1.3							
B.1.3.1	12:4 (MH)	34:4 (MH)	35:1 (L)	36:2 (LM)	37:6 (H)		
B.1.3.2	11:1 (L)	19:1 (L)	40:1 (L)	42:4 (MH)	52:2 (LM)		
B.1.3.3	12:2 (LM)	34:1 (L)	36:2 (LM)				
B.1.3.4	25:4 (MH)	35:5 (MH)	36:1 (L)	43:5 (MH)			
B.2.3							
B.2.3.1	43:1 (L)						
B.2.3.2	12:1 (L)	25:1 (L)	29:6 (H)	35:2 (LM)	36:2 (LM)	42:1 (L)	43:1 (L)
B.3.3							
B.3.3.1	11:2 (LM)	12:1 (L)	29:1 (L)	42:1 (L)			
B.4.3							
B.4.3.1							
B.4.3.2							
C							
C.1.3							
C.1.3.1	3:6 (H)	34:1 (L)	39:1 (L)	52:2 (LM)			
C.2.3							
C.2.3.1	1:6 (H)	2:6 (H)	19:6 (H)	38:6 (H)	39:3 (M)		
C.2.3.2							
C.3.3							
C.3.3.1	20:2 (LM)	22:1 (L)	38:1 (L)	39:1 (L)	52:2 (LM)		

Table 7.11

Number of Reviewers Coding an Item by Objective (Item Number: Number of Reviewers)
Florida Grade 7 Mathematics

C.3.3.2	20:6 (H)	22:2 (LM)	38:3 (M)								
D											
D.1.3											
D.1.3.1	10:1 (L)	13:2 (LM)	14:3 (M)	22:2 (LM)	26:3 (M)	30:2 (LM)	46:2 (LM)	51:1 (L)			
D.1.3.2	14:2 (LM)	15:2 (LM)	26:2 (LM)	46:1 (L)	49:4 (MH)	51:1 (L)					
D.2.3											
D.2.3.1	8:1 (L)	9:3 (M)	10:4 (MH)	13:2 (LM)	14:1 (L)	17:2 (LM)	18:2 (LM)	21:2 (LM)	22:3 (M)	30:2 (LM)	31:4 (MH)
	42:1 (L)										
D.2.3.2	9:3 (M)	10:1 (L)	13:1 (L)	14:1 (L)	17:3 (M)	18:3 (M)	21:4 (MH)	30:2 (LM)	31:3 (M)		
E											
E.1.3											
E.1.3.1	14:1 (L)	15:1 (L)									
E.1.3.2	47:5 (MH)	50:5 (MH)									
E.1.3.3	28:1 (L)	40:1 (L)									
E.2.3											
E.2.3.1	28:2 (LM)	40:3 (M)									
E.2.3.2	28:1 (L)	40:1 (L)									
E.3.3											
E.3.3.1	26:1 (L)	27:5 (MH)	28:3 (M)	40:1 (L)	41:1 (L)	46:1 (L)	47:1 (L)	49:2 (LM)	50:1 (L)	51:5 (MH)	
E.3.3.2	41:5 (MH)										

Table 7.12

Assessment Item DOK vs Consensus DOK (Item Number: Number of Reviewers [Average DOK])

Florida Grade 7 Mathematics

Low DOK (L)	Low Matched DOK (LM)	Matched DOK (M)	Matched High DOK (MH)	High DOK (H)
1	>1 - <3	3	>3 - <6	6

A [1]:											
A.1.3 [1]:											
A.1.3.1 [1]:	48:1 [1] M										
A.1.3.2 [2]:	5:1 [2] M	16:1 [2] M	30:1 [1] L								
A.1.3.3 [1]:	16:1 [2] MH	17:1 [1] M	18:1 [1] M	21:1 [1] M							
A.1.3.4 [1]:	5:2 [1] M	35:1 [2] MH									
A.2.3 [1]:											
A.2.3.1 [1]:	48:5 [1] M										
A.2.3.2 [1]:											
A.3.3 [2]:											
A.3.3.1 [3]:	4:1 [2] LM	14:1 [2] LM	16:4 [1.5] LM	36:1 [2] LM							
A.3.3.2 [1]:	4:2 [2] MH	5:2 [1] M	8:2 [2] MH	13:1 [2] MH	15:1 [1] M	20:1 [2] MH	25:2 [2] MH	26:1 [1] M	28:1 [1] M	36:1 [2] MH	39:1 [2] MH

Table 7.12
Assessment Item DOK vs Consensus DOK (Item Number: Number of Reviewers [Average DOK])
Florida Grade 7 Mathematics

A.3.3.3 [2]:	4:6 [2] M	5:2 [1] L	8:5 [1.8] LM	13:1 [1] L	15:2 [1.5] LM	16:1 [1] L	17:2 [1] L	18:2 [1] L	21:1 [1] L	25:1 [2] M	42:1 [2] M	43:2 [1.5] LM	46:3 [1.67] LM
A.4.3 [2]:													
A.4.3.1 [2]:	11:3 [1.67] LM	27:4 [2] M	37:1 [1] L										
A.5.3 [2]:													
A.5.3.1 [2]:	26:1 [1] L												
B [2]:													
B.1.3 [2]:													
B.1.3.1 [2]:	12:4 [2] M	34:4 [1.5] LM	35:1 [2] M	36:2 [2] M	37:6 [1.67] LM								
B.1.3.2 [2]:	11:1 [2] M	19:1 [1] L	40:1 [1] L	42:4 [2] M	52:2 [1] L								
B.1.3.3 [2]:	12:2 [2] M	34:1 [2] M	36:2 [2] M										
B.1.3.4 [2]:	25:4 [2] M	35:5 [2] M	36:1 [2] M	43:5 [1.2] LM									
B.2.3 [2]:													
B.2.3.1 [2]:	43:1 [2] M												
B.2.3.2 [2]:	12:1 [2] M	25:1 [2] M	29:6 [1.67] LM	35:2 [2] M	36:2 [2] M	42:1 [2] M	43:1 [1] L						

Table 7.12

Assessment Item DOK vs Consensus DOK (Item Number: Number of Reviewers [Average DOK])

Florida Grade 7 Mathematics

B.3.3 [2]:					
B.3.3.1 [2]:	11:2 [2] M	12:1 [2] M	29:1 [2] M	42:1 [2] M	
B.4.3 [2]:					
B.4.3.1 [2]:					
B.4.3.2 [2]:					
C [2]:					
C.1.3 [1]:					
C.1.3.1 [1]:	3:6 [1.17] MH	34:1 [1] M	39:1 [2] MH	52:2 [1] M	
C.2.3 [3]:					
C.2.3.1 [1]:	1:6 [1] M	2:6 [1] M	19:6 [1] M	38:6 [2] MH	39:3 [2] MH
C.2.3.2 [3]:					
C.3.3 [2]:					
C.3.3.1 [2]:	20:2 [1.5] LM	22:1 [2] M	38:1 [2] M	39:1 [2] M	52:2 [1] L
C.3.3.2 [2]:	20:6 [1.5] LM	22:2 [2] M	38:3 [2] M		

Table 7.12

Assessment Item DOK vs Consensus DOK (Item Number: Number of Reviewers [Average DOK])

Florida Grade 7 Mathematics

D [2]:												
D.1.3 [3]:												
D.1.3.1 [2]:	10:1 [2] M	13:2 [1] L	14:3 [2.33] MH	22:2 [2] M	26:3 [2] M	30:2 [1] L	46:2 [1.5] LM	51:1 [2] M				
D.1.3.2 [3]:	14:2 [2] LM	15:2 [2.5] LM	26:2 [1.5] LM	46:1 [2] LM	49:4 [1.25] LM	51:1 [2] LM						
D.2.3 [2]:												
D.2.3.1 [2]:	8:1 [2] M	9:3 [1.33] LM	10:4 [1] L	13:2 [1] L	14:1 [2] M	17:2 [1] L	18:2 [1.5] LM	21:2 [1] L	22:3 [1.67] LM	30:2 [1] L	31:4 [1.75] LM	42:1 [2] M
D.2.3.2 [2]:	9:3 [1.33] LM	10:1 [1] L	13:1 [2] M	14:1 [2] M	17:3 [1] L	18:3 [1] L	21:4 [1] L	30:2 [1.5] LM	31:3 [2] M			
E [2]:												
E.1.3 [3]:												
E.1.3.1 [3]:	14:1 [1] L	15:1 [2] LM										
E.1.3.2 [2]:	47:5 [1] L	50:5 [1] L										
E.1.3.3 [3]:	28:1 [2] LM	40:1 [2] LM										
E.2.3 [2]:												

Table 7.12
Assessment Item DOK vs Consensus DOK (Item Number: Number of Reviewers [Average DOK])
Florida Grade 7 Mathematics

E.2.3.1 [2]:	28:2 [1.5] LM	40:3 [1.67] LM								
E.2.3.2 [1]:	28:1 [2] MH	40:1 [1] M								
E.3.3 [3]:										
E.3.3.1 [3]:	26:1 [2] LM	27:5 [2] LM	28:3 [2] LM	40:1 [2] LM	41:1 [3] M	46:1 [2] LM	47:1 [2] LM	49:2 [1] L	50:1 [1] L	51:5 [1.8] LM
E.3.3.2 [2]:	41:5 [2] M									

Table 7.13
Group Consensus
SSS Grade 7 Mathematics, Mathematics, Grade 7

Level	Description	DOK
A	Number Sense, Concepts, and Operations	1
A.1.3	The student understands the different ways numbers are represented and used in the real world.	1
A.1.3.1	Associates verbal names, written word names, and standard numerals with integers, fractions, and decimals; numbers expressed as percents; numbers with exponents; numbers in scientific notation; radicals; absolute value; and ratios	1
A.1.3.2	Understands the relative size of integers, fractions, and decimals; numbers expressed as percents; numbers with exponents; numbers in scientific notation; radicals; absolute value; and ratios	2
A.1.3.3	Understands concrete and symbolic representations of rational numbers and irrational numbers in real-world situations	1
A.1.3.4	Understands that numbers can be represented in a variety of equivalent forms, including integers, fractions, decimals, percents, scientific notation, exponents, radicals, and absolute value	1
A.2.3	The student understands number systems.	1
A.2.3.1	Understands and uses exponential and scientific notation	1
A.2.3.2	Understands the structure of number systems other than the decimal number system	1
A.3.3	The student understands the effects of operations on numbers and the relationships among these operations, selects appropriate operations, and computes for problem solving.	2
A.3.3.1	Understands and explains the effects of addition, subtraction, multiplication, and division on whole numbers, fractions, including mixed numbers, and decimals, including the inverse relationships of positive and negative numbers	3
A.3.3.2	Selects the appropriate operation to solve problems involving addition, subtraction, multiplication, and division of rational numbers, ratios, proportions, and percents, including the appropriate application of the algebraic order of operations	1
A.3.3.3	Adds, subtracts, multiplies, and divides whole numbers, decimals, and fractions, including mixed numbers, to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator	2
A.4.3	The student uses estimation in problem solving and computation.	2
A.4.3.1	Uses estimation strategies to predict results and to check the reasonableness of results	2
A.5.3	The student understands and applies theories related to numbers.	2
A.5.3.1	Uses concepts about numbers, including primes, factors, and multiples, to build number sequences	2
B	Measurement	2
B.1.3	The student measures quantities in the real world and uses the measures to solve problems.	2
B.1.3.1	Uses concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volume of two- and three-dimensional shapes, including rectangular solids and cylinders	2

Table 7.13
Group Consensus
SSS Grade 7 Mathematics, Mathematics, Grade 7

Level	Description	DOK
B.1.3.2	Uses concrete and graphic models to derive formulas for finding rates, distance, time, and angle measures	2
B.1.3.3	Understands and describes how the change of a figure in such dimensions as length, width, height, or radius affects its other measurements such as perimeter, area, surface area, and volume	2
B.1.3.4	Constructs, interprets, and uses scale drawings such as those based on number lines and maps to solve real-world problems	2
B.2.3	The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary).	2
B.2.3.1	Uses direct (measured) and indirect (not measured) measures to compare a given characteristic in either metric or customary units	2
B.2.3.2	Solves problems involving units of measure and converts answers to a larger or smaller unit within either the metric or customary system	2
B.3.3	The student estimates measurements in real-world problem situations.	2
B.3.3.1	Solves real-world and mathematical problems involving estimates of measurements including length, time, weight/mass, temperature, money, perimeter, area, and volume in either customary or metric units	2
B.4.3	The student selects and uses appropriate units and instruments for measurement to achieve the degree of precision and accuracy required in real-world situations.	2
B.4.3.1	Selects appropriate units of measurement and determines and applies significant digits in a real-world context. (Significant digits should relate to both instrument precision and to the least precise unit of measurement.)	2
B.4.3.2	Selects and uses appropriate instruments, technology, and techniques to measure quantities in order to achieve specified degrees of accuracy in a problem situation	2
C	Geometry and Spatial Sense	2
C.1.3	The student describes, draws, identifies, and analyzes two- and three-dimensional shapes.	1
C.1.3.1	Understands the basic properties of, and relationships pertaining to, regular and irregular geometric shapes in two and three dimensions	1
C.2.3	The student visualizes and illustrates ways in which shapes can be combined, subdivided, and changed.	3
C.2.3.1	Understands the geometric concepts of symmetry, reflections, congruency, similarity, perpendicularity, parallelism, and transformations, including flips, slides, turns, and enlargements	1
C.2.3.2	Predicts and verifies patterns involving tessellations (a covering of a plane with congruent copies of the same pattern with no holes and no overlaps, like floor tiles)	3
C.3.3	The student uses coordinate geometry to locate objects in both two and three dimensions and to describe objects algebraically.	2
C.3.3.1	Represents and applies geometric properties and relationships to solve real-world and mathematical problems	2
C.3.3.2	Identifies and plots ordered pairs in all four quadrants of a rectangular coordinate system (graph) and applies simple properties of lines	2

Table 7.13
Group Consensus
SSS Grade 7 Mathematics, Mathematics, Grade 7

Level	Description	DOK
D	Algebraic Thinking	2
D.1.3	The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions.	3
D.1.3.1	Describes a wide variety of patterns, relationships, and functions through models, such as manipulatives, tables, graphs, expressions, equations, and inequalities	2
D.1.3.2	Creates and interprets tables, graphs, equations, and verbal descriptions to explain cause-and-effect relationships	3
D.2.3	The student uses expressions, equations, inequalities, graphs, and formulas to represent and interpret situations.	2
D.2.3.1	Represents and solves real-world problems graphically, with algebraic expressions, equations, and inequalities	2
D.2.3.2	Uses algebraic problem-solving strategies to solve real-world problems involving linear equations and inequalities	2
E	Data Analysis and Probability	2
E.1.3	The student understands and uses the tools of data analysis for managing information.	3
E.1.3.1	Collects, organizes, and displays data in a variety of forms, including tables, line graphs, charts, and bar graphs, to determine how different ways of presenting data can lead to different interpretations	3
E.1.3.2	Understands and applies the concepts of range and central tendency (mean, median, and mode)	2
E.1.3.3	Analyzes real-world data by applying appropriate formulas for measures of central tendency and organizing data in a quality display, using appropriate technology, including calculators and computers	3
E.2.3	The student identifies patterns and makes predictions from an orderly display of data using concepts of probability and statistics.	2
E.2.3.1	Compares experimental results with mathematical expectations of probabilities	2
E.2.3.2	Determines the odds for and the odds against a given situation	1
E.3.3	The student uses statistical methods to make inferences and valid arguments about real-world situations.	3
E.3.3.1	Formulates hypotheses, designs experiments, collects and interprets data, and evaluates hypotheses by making inferences and drawing conclusions based on statistics (range, mean, median, and mode) and tables, graphs, and charts	3
E.3.3.2	Identifies the common uses and misuses of probability and statistical analysis in the everyday world	2