

APPENDIX K

SAMPLES OF MCAS SPRING 2007 TEST ITEM ANALYSIS REPORTS

Appendix K provides samples of the following two reports of results:

Final Test Item Analysis Roster	Appendix K, Pages 2–6
School Test Item Analysis Report Summary.....	Appendix K, Pages 7–8

Appendix K



Massachusetts Department of Education SPRING 2007 MCAS TESTS Final Test Item Analysis Roster Mathematics

SCHOOL:
 SCHOOL ID #:
 DISTRICT:
 GRADE:
 PAGE: 3 of 4

See last page for legend.

Item Number	Item Type																																										Total Poss. Points	Total Raw Score	Scaled Score	Comp. Perf. Ind. Pts. (CPI)	Perf. Level			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42								
Correct MC Answer																																																		
Reporting Category																																																		
Name/SASID																																																		
	+	+	+	A	+	+	A	+	+	C	A	+	B	+	1	1	1	1	1	4	3	C	+	+	D	+	B	+	+	+	4	+	+	+	+	+	+	+	D	+	1	3	43	254	100	P				
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	3	1	1	4	2	+	+	D	+	+	A	+	+	3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	262	100	A	
	+	+	D	+	+	+	+	+	+	+	+	+	+	+	+	0	0	1	1	1	4	3	+	B	+	D	+	+	+	+	4	+	+	+	+	+	+	+	+	+	+	+	+	+	42	254	100	A,M		
	+	+	+	A	D	+	+	+	+	+	+	+	+	+	+	0	1	2	1	1	4	3	+	C	+	+	+	+	+	+	+	4	+	+	+	+	+	+	+	+	+	+	+	+	42	254	100	P		
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	4	1	1	4	4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	58	272	100	A	
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	1	1	1	1	4	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45	258	100	P		
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	1	1	1	1	4	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	267	100	A		
	+	+	C	C	+	+	+	+	+	+	+	+	+	+	+	1	1	2	0	1	4	3	+	B	+	D	+	+	+	+	4	+	+	+	+	+	+	+	+	+	+	+	+	+	23	222	100	NIM		
	D	+	C	B	+	D	+	+	+	D	A	+	B	D	0	0	3	1	1	4	2	C	D	+	+	D	A	+	+	1	B	+	+	+	+	+	+	+	+	+	+	+	+	36	244	100	P			
	+	+	C	A	+	+	+	+	+	+	+	+	+	+	+	0	1	3	1	1	4	4	C	+	+	D	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	50	262	100	A			
	+	+	A	C	+	+	+	+	+	+	+	+	+	+	+	0	1	4	1	1	4	4	C	+	+	+	+	+	+	+	3	+	+	+	+	+	+	+	+	+	+	+	+	55	268	100	A			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	1	1	0	3	0	+	+	+	D	C	D	A	+	+	4	A	+	+	+	+	+	+	+	+	+	+	26	244	100	P			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	4	1	1	4	4	+	+	+	D	C	+	+	+	4	+	+	+	+	+	+	+	+	+	+	+	+	56	268	100	A			
	+	+	C	A	+	+	+	A	+	C	+	+	+	B	+	1	0	2	1	1	4	1	+	B	+	D	D	A	+	+	1	+	+	+	+	+	+	+	+	+	+	+	0	2	36	244	100	P		
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	1	0	4	4	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	40	250	100	P			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	4	1	1	4	4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	57	270	100	A		
	+	+	C	+	+	+	+	+	+	+	+	+	+	+	+	0	1	3	1	0	4	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41	252	100	P		
	+	+	C	+	+	+	+	+	+	+	+	+	+	+	+	1	1	2	1	1	4	3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	262	100	A		
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	1	1	1	4	3	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42	254	100	P		
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	4	1	1	4	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	264	100	A		
	+	+	C	A	+	+	+	A	+	+	+	+	+	B	+	1	1	2	1	0	4	3	+	+	+	B	+	+	+	+	3	+	D	+	+	+	+	+	+	+	+	+	+	42	254	100	P			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	2	1	0	4	1	+	+	+	D	+	+	+	+	+	3	+	+	+	+	+	+	+	+	+	+	+	+	39	248	100	P			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	4	1	1	4	4	+	+	+	D	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	57	270	100	A		
	+	+	D	+	+	+	+	+	+	+	+	+	+	+	+	1	2	1	1	4	4	+	+	+	D	A	+	+	+	3	B	+	+	+	+	+	+	+	+	+	+	+	+	44	256	100	P			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	3	1	1	4	4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	57	270	100	A		
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	1	1	0	4	0	+	+	+	D	C	+	+	+	4	+	+	+	+	+	+	+	+	+	+	+	+	+	36	244	100	P		
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	1	1	1	4	2	+	+	+	+	+	+	+	+	3	+	+	+	+	+	+	+	+	+	+	+	+	46	260	100	A			
	+	+	C	+	+	+	+	+	+	+	+	+	+	+	+	1	4	1	1	1	4	4	+	+	+	D	+	+	+	+	4	+	+	+	+	+	+	+	+	+	+	+	+	57	270	100	A			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	1	3	1	1	4	3	+	+	+	D	+	+	+	+	3	+	+	+	+	+	+	+	+	+	+	+	+	47	260	100	A			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	1	1	1	0	4	2	+	+	+	D	C	+	+	+	2	+	+	+	+	+	+	+	+	+	+	+	+	44	256	100	P			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	3	1	1	2	3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	56	268	100	A			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	4	1	1	4	4	D	+	+	+	+	+	+	+	+	4	A	+	+	+	+	+	+	+	+	+	+	+	56	268	100	A			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	2	1	1	4	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42	254	100	P			
	+	+	C	+	+	+	+	+	+	+	+	+	+	+	+	1	1	1	1	1	4	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	37	246	100	P			
	+	+	C	+	+	+	+	+	+	+	+	+	+	+	+	1	0	2	1	0	4	2	+	+	+	D	D	+	+	B	+	A	3	+	+	+	+	+	+	+	+	+	0	1	36	244	100	P		
	+	+	+	C	+	+	+	+	+	+	+	+	+	+	+	1	2	0	1	2	2	+	+	+	C	+	+	+	+	+	3	+	+	+	+	+	+	+	+	+	+	+	+	41	252	100	P			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	3	1	1	4	3	C	+	+	+	D	+	+	+	+	3	+	D	+	+	+	+	+	+	+	+	+	46	260	100	A,M				
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1	1	1	4	2	+	+	+	D	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	262	100	A			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	4	1	1	4	3	+	+	+	D	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	262	100	A			
	+	+	C	+	+	+	+	+	+	+	+	+	+	+	+	1	1	1	0	2	1	+	+	+	D	A	+	+	+	4	+	+	+	+	+	+	+	+	+	+	+	+	+	28	230	75	NI			
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	3	1	0	4	2	+	+	+	D	D	+	+	+	4	+	+	+	+	+	+	+	+	+	+	+	+	52	264	100	A				



Massachusetts Department of Education
SPRING 2007 MCAS TESTS
Final Test Item Analysis Roster: Legend
Mathematics

Item Numbers correspond to item numbers in the MCAS document *Release of Spring 2007 MCAS Test Items*, which is available at www.doe.mass.edu/mcas/testitems.html. Standards may be found in the *Massachusetts Curriculum Frameworks*, which are available at www.doe.mass.edu/frameworks/current.html.

ITEM TYPE

- MC = Multiple-Choice
- SA = Short-Answer
- OR = Open-Response

REPORTING CATEGORY

- NS = Number Sense and Operations
- PR = Patterns, Relations, and Algebra
- GE = Geometry
- ME = Measurement
- SP = Data Analysis, Statistics, and Probability

SCORE CODES

Multiple-Choice Items:

- + = correct answer chosen (1 point earned)
- A, B, C, or D = incorrect answer chosen (0 points earned)
- blank space = no answer chosen (0 points earned)
- * = more than one answer chosen (0 points earned)

Short-Answer Items:

- 0 or 1 = points earned out of 1 possible point
- blank space = no answer provided (0 points earned)

Open-Response Items:

- 0, 1, 2, 3, or 4 = points earned out of 4 possible points
- blank space = no answer provided (0 points earned)

Scaled Scores:

- 200–280 = scaled score range
- blank space = student not included in summary scores

PERFORMANCE LEVEL CODES

Standard Codes:

- A = Advanced
- P = Proficient
- NI = Needs Improvement
- F = Failing

Alternate Assessment Codes:

- A_A = Advanced, Alternate Assessment
- P_A = Proficient, Alternate Assessment
- NIA = Needs Improvement, Alternate Assessment
- PRG = Progressing, Alternate Assessment
- EMG = Emerging, Alternate Assessment
- AWR = Awareness, Alternate Assessment
- INP = Incomplete Portfolio, Alternate Assessment

Certificate of Mastery Codes (not included in summary results):

- A_M = Advanced, Certificate of Mastery
- P_M = Proficient, Certificate of Mastery
- NIM = Needs Improvement, Certificate of Mastery
- F_M = Failing, Certificate of Mastery

Not Tested Codes:

- ABS = Absent
- MED = Medically Documented Absence
- INC = Incomplete Test Results
- LEP = First-Year Limited English Proficient
- TRN = Transferred



Massachusetts Department of Education
SPRING 2007 MCAS TESTS
School Test Item Analysis Report Summary
Mathematics

SCHOOL:
 SCHOOL ID #:
 NUMBER OF STUDENTS INCLUDED:

DISTRICT:
 GRADE:

Item Number	Item Type	Reporting Category	Standard	Average Item Score			Percent of School's Student Responses (for each MC answer or SA/OR score point)					Correct MC Answer	
				School	District	State	Blank/0	A/1	B/2	C/3	D/4		
1	MC	NS	10.N.2	0.97	0.96	0.87	0	97	1	1	2	A	
2	MC	NS	10.N.3	0.94	0.93	0.84	0	1	94	4	1	B	
3	MC	SP	10.D.1	0.66	0.66	0.60	0	66	2	25	7	A	
4	MC	PR	10.P.3	0.69	0.68	0.69	1	14	4	12	69	D	
5	MC	NS	10.N.2	0.90	0.90	0.79	0	7	0	90	3	C	
6	MC	PR	10.P.1	0.91	0.90	0.80	0	6	3	91	1	C	
7	MC	NS	8.N.2	0.73	0.73	0.71	0	8	73	2	16	B	
8	MC	PR	10.P.3	0.89	0.88	0.73	1	5	89	5	1	B	
9	MC	NS	10.N.3	0.62	0.61	0.64	0	62	20	10	8	A	
10	MC	SP	10.D.2	0.66	0.65	0.69	0	5	66	14	15	B	
11	MC	PR	10.P.5	0.78	0.77	0.67	0	19	3	78	0	C	
12	MC	GE	10.G.1	0.85	0.85	0.84	0	4	8	85	2	C	
13	MC	PR	10.P.4	0.54	0.53	0.57	0	54	34	3	9	A	
14	MC	NS	10.N.2	0.89	0.88	0.70	0	2	5	89	4	C	
15	SA	SP	10.D.1	0.84	0.83	0.84	16	84					
16	SA	GE	10.G.4	0.87	0.86	0.76	13	87					
17	OR	PR	10.P.2	2.31	2.30	2.01	1	36	17	22	23		
18	SA	ME	10.M.1	0.85	0.83	0.74	15	85					
19	SA	SP	8.D.4	0.77	0.76	0.63	23	77					
20	OR	PR	10.P.8	3.58	3.56	3.09	0	3	11	9	76		
21	OR	NS	10.N.2	2.63	2.62	2.19	6	13	22	31	29		
22	MC	ME	10.M.1	0.80	0.80	0.77	0	6	80	10	3	B	
23	MC	SP	10.D.1	0.78	0.77	0.71	0	78	18	1	3	A	
24	MC	ME	10.M.1	0.94	0.94	0.84	0	2	94	3	1	B	
25	MC	PR	10.P.7	0.46	0.46	0.45	0	7	10	46	37	C	
26	MC	SP	10.D.1	0.45	0.45	0.48	0	7	45	12	36	B	
27	MC	GE	10.G.6	0.66	0.66	0.61	0	14	10	66	10	C	
28	MC	ME	10.M.3	0.50	0.49	0.52	0	31	12	50	8	C	
29	MC	GE	10.G.5	0.91	0.90	0.81	0	3	3	3	91	D	
30	MC	PR	10.P.7	0.71	0.70	0.59	1	14	7	71	8	C	
31	OR	SP	10.D.1	3.19	3.17	2.89	1	3	12	41	42		
32	MC	PR	10.P.8	0.81	0.81	0.74	0	10	4	81	4	C	
33	MC	SP	10.D.1	0.93	0.92	0.78	0	1	93	2	3	B	
34	MC	ME	10.M.2	0.76	0.76	0.75	0	76	13	6	5	A	
35	MC	SP	10.D.1	0.91	0.90	0.78	0	91	2	6	1	A	
36	MC	GE	10.G.3	0.93	0.92	0.78	0	0	93	6	1	B	
37	MC	PR	10.P.2	0.62	0.62	0.58	0	62	3	2	33	A	
38	MC	ME	10.M.1	0.86	0.86	0.77	0	1	86	10	3	B	
39	MC	PR	10.P.6	0.56	0.56	0.54	0	3	9	56	31	C	
40	MC	SP	8.D.4	0.62	0.61	0.62	0	14	62	21	3	B	
41	OR	ME	10.M.2	2.66	2.64	2.48	13	10	13	28	36		
42	OR	GE	10.G.6	2.48	2.45	2.11	14	12	18	24	32		
TOTAL				44.42	44.08	40.00							

Only students that have been enrolled since October 2006 are included in this report.

00010505



Massachusetts Department of Education
SPRING 2007 MCAS TESTS
School Test Item Analysis Report: Legend
Mathematics

Item Numbers correspond to item numbers in the MCAS document *Release of Spring 2007 MCAS Test Items*, which is available at www.doe.mass.edu/mcas/testitems.html. Standards may be found in the *Massachusetts Curriculum Frameworks*, which are available at www.doe.mass.edu/frameworks/current.html.

ITEM TYPE

- MC = Multiple-Choice
- SA = Short-Answer
- OR = Open-Response

REPORTING CATEGORY

- NS = Number Sense and Operations
- PR = Patterns, Relations, and Algebra
- GE = Geometry
- ME = Measurement
- SP = Data Analysis, Statistics, and Probability