

MCAS Review

Topic #7: Full Practice Test 3

ANSWER KEY

Grade 10 Mathematics
Spring 2016 Released Items:
Reporting Categories, Standards, and Correct Answers*

Item No.	Page No.	Reporting Category	Standard	Correct Answer (MC/SA)*
1	225	<i>Expressions and Equations</i>	EE.6	C
2	225	<i>Expressions and Equations</i>	EE.2	B
3	225	<i>Expressions and Equations</i>	EE.4	D
4	226	<i>Expressions and Equations</i>	EE.8	C
5	226	<i>Geometry</i>	G.3	D
6	227	<i>The Number System</i>	NS.1	0.8333... or equivalent
7	227	<i>Expressions and Equations</i>	EE.1	12
8	228	<i>Expressions and Equations</i>	EE.7	B
9	228	<i>Expressions and Equations</i>	EE.5	B
10	228	<i>Expressions and Equations</i>	EE.3	A
11	229	<i>Functions</i>	F.2	see attached
12	230	<i>Functions</i>	F.4	B
13	230	<i>Geometry</i>	G.5	C
14	231	<i>Geometry</i>	G.1	B
15	231	<i>Geometry</i>	G.8	C
16	232	<i>Geometry</i>	G.2	A
17	232	<i>Geometry</i>	G.9	D
18	233	<i>Geometry</i>	G.7	18 in.
19	234	<i>Functions</i>	F.5	D
20	234	<i>Geometry</i>	G.4	D
21	235	<i>Statistics and Probability</i>	SP.4	see attached

* Answers are provided here for multiple-choice and short-answer items only. Sample responses and scoring guidelines for open-response items, which are indicated by the shaded cells, will be posted to the Department's website later this year.

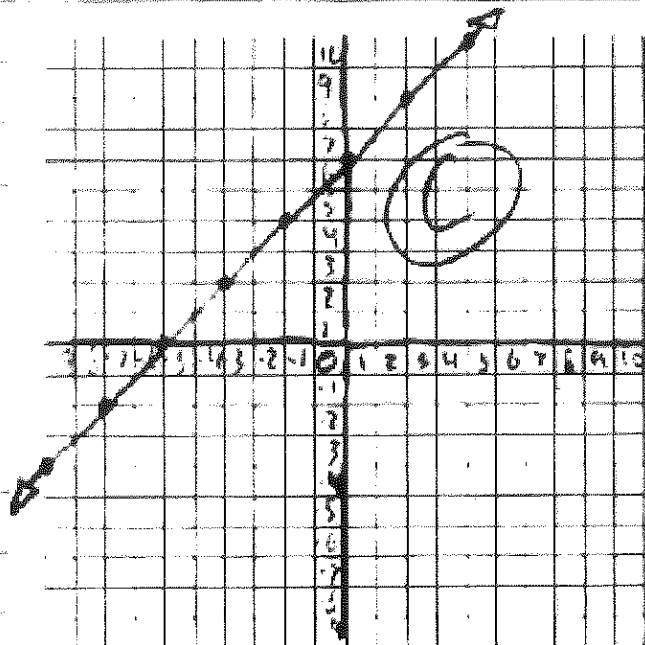
Question 11 - Score Point 4

a) The slope representing Function H is $\frac{3}{2}$. I got this by using the rise over run formula. First I got the rise as 9 and the run as 6. Then I divided 9 by 6 and got $\frac{3}{2}$.

b) $y = 3x - 6$

c) The y-intercept is 6. (work shown in grid)

d) Least - Function K
 ↓ Function H
 ▽ Function I
Greatest Function J



Question 21 - Score Point 4

A. $120 - 72 = 48$ 48 7th graders wanted Gymnastics
 $255 - 120 = 135$ $135 - 62 = 73$
73 8th graders wanted tennis
(filled out on table in graph below)

B. $62 + 73 = 135$ eighth graders total
 $73/135 = .54 = 54\%$

54% of eighth graders wanted tennis over gymnastics

C. $48 + 62 = 110$ students choose gymnastics

$48/110$ 7th graders wanted gymnastics over tennis

D. $72/120 = 60\%$ 7th grade
 $73/135 = 54\%$ 8th grade

7th grade had a higher percentage of kids that wanted tennis

	Tennis	Gymnastics
Seventh Grade	72	48
Eighth Grade	73	62