

Smarter Balanced

Assessment Consortium:

Practice Test Scoring Guide

Grade 8

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For this item, a full-credit response (1 point) includes:

• a right triangle with leg lengths of 6 units and 8 units and a hypotenuse of 10 units

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A square, with side length *s*, has an area of 324 square centimeters. This equation shows the area of the square.

$s^2 = 324$

What is the side length of the square in centimeters?

4 5 6	
789	
0	

For this item, a full-credit response (1 point) includes:

• the value 18

Six friends are going to buy pizza. Their choices are to buy 2 medium 10-inch diameter pizzas for \$7.00 each, or 1 large 14-inch diameter pizza for \$15.00. Both prices include tax and tip.

The friends agree that their best choice is the one that gives them the most pizza for their money.



Which is the best choice? Explain your answer.

For this item, a full-credit response (2 points) includes:

• choosing 2 medium pizzas and providing an explanation as to why

For example,

- "The area/ amount of the two choices of pizza is about the same, but the large pizza costs more than the 2 medium ones." OR
- "The area/amount of the two choices of pizza is about the same, but the 2 medium pizzas are less expensive."

For this item, a partial credit response (1 point) includes:

- 2 medium pizzas with irrelevant, flawed, or missing explanation OR
- 1 large pizza, but uses a correct process with minor mathematical error for 1 point each

For example,

- "2 medium pizzas because 2 is better than 1" OR
- "1 large pizza because the area is greater than 2 medium pizzas"

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For this item, an incorrect response (0 points) includes:

• 1 large pizza and an irrelevant or missing explanation

For example,

• "1 large pizza"

This item is not graded for spelling or grammar



For this item, a full-credit response (2 points) includes:

- any negative number and positive number that sum to a negative number or zero in part A AND
- any negative number and positive number that sum to a positive number in part B

For example,

- -1 + 1 = 0 AND
- -1+2=1

For this item, partial-credit response includes:

- any negative number and positive number that sum to a negative number or zero in part A (1 point) OR
- any negative number and positive number that sum to a positive number in part B (1 point)



For this item, a full-credit response (2 points) includes:

- the figure reflected across the *x*-axis AND
- the figure translated 7 units to the left

For example,



For partial credit, the student completes one of the above tasks for 1 point each.

Continued on next page

For example,

• the figure reflected across the *x*-axis



OR

• the figure translated 7 units to the left





For this item, a full-credit response (2 points) includes:

- Justin's car at the 25-mile mark AND
- Kim's car at the 31-mile mark

For partial credit, the student completes one of the above tasks for 1 point.



For this item, a full-credit response (1 point) includes:

• all 3 segments correctly plotted







Drag each number to its correct position on the number line.



For this item, a full-credit response (2 points) includes:

• all 3 numbers placed in their correct position



For partial credit (1 point), the student correctly places 2 numbers.

Two sides of a right triangle have lengths of $\sqrt{10}$ units and $\sqrt{6}$ units. There are two possible lengths for the third side.



For this item, a full-credit response (1 point) includes:

• the value 2

Two sides of a right triangle have lengths of $\sqrt{10}$ units and $\sqrt{6}$ units. There are two possible lengths for the third side.



For this item, a full-credit response (1 point) includes:

• the value 4

767	0	Delete	×				
	1						
Kayla asked 10 students in her class whether they owned a dog	2						
or a cat or both.	3						
Drag one number into each box	4						
to complete the table, given this information:	5			Dog	No Dog	Total	
• 40% of the students own a	6		Cat				
dog.	7						
• 30% of the students own a	8		No Cat)			
cat.	9		Total	111		10	
 10% of the students own both a dog and a cat. 				·i	1	10	

For this item, a full-credit response (3 points) includes:

- 4 in the "Dog Total" section and 6 in the "No Dog Total" section AND
- 3 in the "Cat Total" section and 7 in the "No Cat Total" section AND
- correctly placing numbers that sum to the totals of the corresponding rows and columns

For example,

	Dog	No Dog	Total
Cat	1	2	3
No Cat	3	4	7
Total	4	6	10

For partial credit, the student completes the above tasks for 1 point each.

Segment *FG* begins at point *F*(-2, 4) and ends at point *G*(-2, -3). The segment is translated by $\langle x - 3, y + 2 \rangle$ and then reflected across the *y*-axis to form segment *F'G'*.

How long is segment F'G'?

- **A** 0
- ® 2
- © 3
- 7

For this item, a full-credit response (1 point) includes:

• option D



Use the Add Arrow tool to draw a line that shows the proportional relationship between the number of pounds of coffee purchased and the total cost.



For this item, a full-credit response (1 point) includes:

• a correct ray constructed



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A sphere and a cone have the same volume. Each figure has a radius of 3 inches. What is the height of the cone?

- A in
- 6 in
- © 9 in
- 12 in

For this item, a full-credit response (1 point) includes:

• option D

Joe solved this linear system correctly.

6x + 3y = 6

y = -2x + 2

These are the last two steps of his work.

$$6x - 6x + 6 = 6$$

Which statement about this linear system must be true?

- (A) x must equal 6
- y must equal 6
- © There is no solution to this system.
- There are infinitely many solutions to this system.

For this item, a full-credit response (1 point) includes:

• option D



For this item, a full-credit response (2 point) includes:

- an equation with a slope of 4 and an intercept that is not 2 for part A AND
- an equation that does not have a slope of 4 for part B AND
- an equation with a slope of 4 and an intercept of 2 for part C

For partial credit (1 point), the student correctly answers part B and either part A or part C.

For example,

- 8x 3x + 2 x = 4x + 3AND
- 8x 3x + 2 x = 3x + 3AND
- 8x 3x + 2 x = 4x + 2

Triangle *ABC* undergoes a series of some of the following transformations to become triangle *DEF*:

- rotation
- reflection
- translation
- dilation

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Part A

Is triangle *DEF* always, sometimes, or never **congruent** to triangle *ABC*? Provide justification to support your conclusion.

For this item, a full-credit response (1 point) includes:

• the choice of "sometimes" and a correct explanation

For example,

- "Sometimes; triangle DEF is congruent to ABC under all translations, rotations, and reflections, but not under all dilations" OR
- "Sometimes, because dilations will not give a congruent figure" OR
- "Sometimes, because only rotations, translations, and reflections give a congruent figure"

For this item, an incorrect response (0 points) includes:

- the choice of "always" or "never" OR
- The choice of "sometimes" with an incorrect explanation

For example,

• "Never, because all transformations change the shape"

This item is not graded for spelling or grammar.

Triangle *ABC* undergoes a series of some of the following transformations to become triangle *DEF*:

- rotation
- reflection
- translation
- dilation



Part B

Is triangle *DEF* always, sometimes, or never **similar** to triangle *ABC*? Provide justification to support your conclusion.

For this item, a full-credit response (1 point) includes:

• the choice of "always" and a correct explanation

For example,

- "Always; by the definition of similarity, triangle *DEF* is the result of translations, reflections, rotations, and dilations and is therefore similar to triangle *ABC*."
 - OR
- "Always, because the transformation of any shape will always be similar"

For this item, an incorrect response (0 points) includes:

- the choice of "sometimes" or "never" OR
- the choice of "always" with an incorrect explanation

For example,

• "Always, because triangle *DEF* is equilateral"

This item is not graded for spelling or grammar.



For this item, a full-credit response (1 point) includes:

• a graph with a slope of 2

For example,





Look at the graph of the linear equation.



Write an equation for the line in slope-intercept form.



For this item, a full-credit response (1 point) includes:

• a correct equation, such as $y = -\frac{1}{3}x$



Kyle was given a problem to solve. The problem and his work are shown.

Select the part of Kyle's work that contains a mistake.

Then, select the part of the problem Kyle should read again to fix his mistake.

A company sells baseball gloves and bats. The gloves regularly cost \$30 and the bats regularly cost \$90. The gloves are on sale for \$4 off, and the bats are on sale for 10% off. The goal is to sell \$1200 worth of bats and gloves each week. Last week, the store sold 14 gloves and 9 bats.

Did the store meet its goal?

1. \$30 <u>- \$4</u> \$26	2. \$90 ÷ 0.9 \$100	3. \$900 + \$364 \$1264	
\$26 <u>× 14</u> \$364	\$100 <u>× 9</u> \$900		

For this item, a full-credit response (1 point) includes:

- "the bats are on sale for 10% off" is selected AND
- " $90 \div 0.9 = 100$ " is selected



For this item, a full-credit response (1 point) includes:

- two red sections AND
- two blue sections AND
- one green section

Look at this graph of a function.



Which equation represents a function with a rate of change that is ${\it greater than}$ the rate of change of the function shown in the graph?

- (a) y = 3x 1
- ^(B) $y = \frac{x}{2} + 4$
- © y = 2x + 2
- (b) $y = \frac{x}{3} 3$

For this item, a full-credit response (1 point) includes:

• option A



For this item, a full-credit response (1 point) includes:

• any 2 lines that intersect at the point (-2, -3)

For example,





Look at these numbers.

 $\sqrt{2}, \sqrt{3}, \sqrt{5}, \sqrt{7}$

Classify the numbers by selecting all that apply.

- integer
- irrational
- rational
- 🗌 real

For this item, a full-credit response (1 point) includes:

- option B AND
- option D