Grade 7

FAST Mathematics

Sample Test Materials Answer Key

The Grade 7 FAST Mathematics Sample Test Materials Answer Key provides the correct response(s) for each item on the sample test. The sample items and answers are not intended to demonstrate the length of the actual test, nor should student responses be used as an indicator of student performance on the actual test.

All trademarks and trade names found in this publication are the property of their respective owners and are not associated with the publishers of this publication.

BLANK PAGE

1. What is the product of $\left(-\frac{3}{4}\right)$ and $\left(\frac{3}{4}\right)$?

Write your response in the shaded box below.

$$-\frac{9}{16}$$

Other correct responses: *any equivalent value*

Go On

2. Melanie has a spinner and a deck of cards.

- The probability of spinning an even number on the spinner is $\frac{2}{5}$.
- The probability of drawing an even number from the deck of cards is $\frac{5}{13}$.

Complete the statement to compare the probabilities. For each box, fill in the bubble before the phrase or comparison that is correct.

P(spinning an even number) is

Ⓐ equal to
Ⓑ less than
● greater than

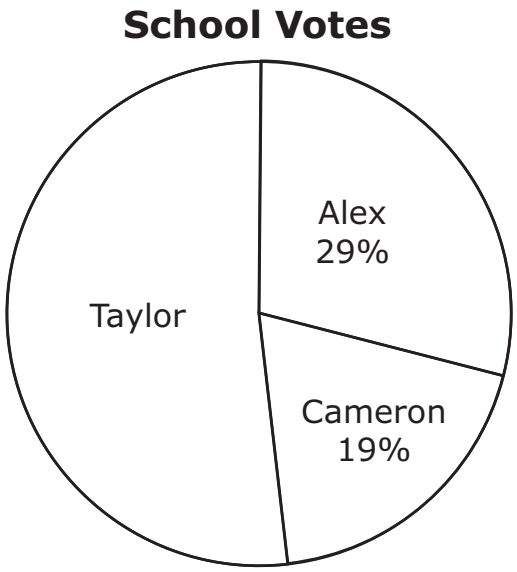
P(drawing an even number card) because

Ⓐ $2 < 5$
Ⓑ $5 < 13$
● $\frac{2}{5} > \frac{5}{13}$
Ⓓ $\frac{2}{5} < \frac{5}{13}$
Ⓔ $\frac{2}{5} = \frac{5}{13}$

.

Go On

3. A school holds an election for class president. The percentage of votes received by Taylor, Alex, and Cameron are shown in the circle graph.



What percentage of the votes did Taylor receive?

Ⓐ 48%

● 52%

Ⓒ 71%

Ⓓ 81%

Option B: **This answer is correct.** *The student correctly identified that the percentage of votes for Taylor is 52%, which will sum to a total of 100% (Alex's percentage is 29%, and Cameron's percentage is 19%).*

Go On

4. Fill in bubbles to match the equivalent expressions.

	$3m + 4$	$5m + 4$
$2(m + 3) + m - 2$	●	Ⓑ
$5(m + 1) - 1$	Ⓒ	●
$m + m + m + 1 + 3$	●	Ⓕ

Go On

5. An inequality is shown.

$$-4p > -60$$

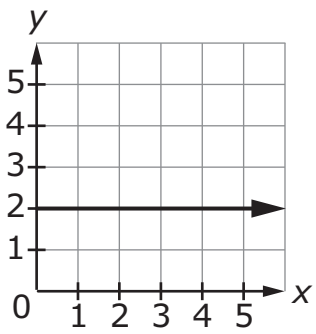
Fill in the bubble **before** the correct inequality symbol and write your response in the shaded box below to represent the solution to the inequality.

Other correct responses: *any equivalent inequality*

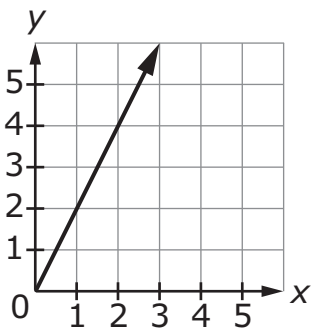
Go On

6. Select all the representations that show a proportional relationship between *x* and *y*.

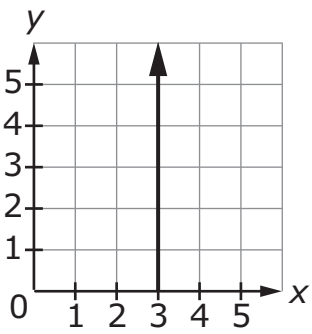
Ⓐ



●



Ⓔ



Ⓑ

x	*y*
0	0
2	4
4	16
6	36

●

x	*y*
0	0
2	8
4	16
6	24

Option C: **This answer is correct.** *The student recognized that the graph of a proportional relationship starts at the origin and increases linearly.*

Option D: **This answer is correct.** *The student recognized that a proportional relationship is a relationship between two variables so all pairs of values make equivalent ratios; in this case, x:y = 1:4.*

Office of Assessment
Florida Department of Education, Tallahassee, Florida
Copyright © 2023 State of Florida, Department of State