



Grade 3

FAST Mathematics

Sample Test Materials

Answer Key

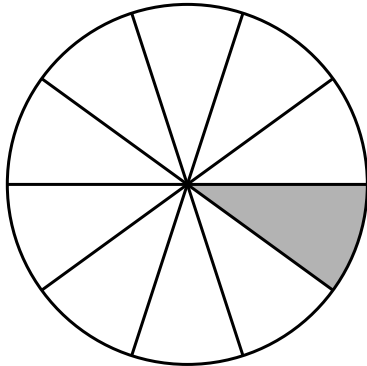
The Grade 3 FAST Mathematics Sample Test Materials Answer Key provides the correct response(s) for each item on the sample test. The sample items and answers are not intended to demonstrate the length of the actual test, nor should student responses be used as an indicator of student performance on the actual test.

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FAST Mathematics Sample Items Answer Key

1. A circle with one part shaded is shown.



Create a fraction that represents the shaded part of the circle.

Write your response in the shaded box below.

$1/10$

Other correct responses: any equivalent fraction

FAST Mathematics Sample Items Answer Key

2. What is the expanded form of 7,403?

- Ⓐ $700 + 40 + 3$
- Ⓑ $7,000 + 40 + 3$
- Ⓒ $7,000 + 400 + 3$
- Ⓓ $7,000 + 400 + 30$


Option C: This answer is correct. The student correctly identified that the number has 7 thousands, 4 hundreds, and 3 ones.

FAST Mathematics Sample Items Answer Key

3. Ms. Devitt asks each of her 18 students to bring their favorite book to class.













































































































- 6 students bring science fiction books.
- 3 students bring comic books.
- The rest of the students bring fantasy books.

Create a scaled picture graph to show the data. For each box, fill in the bubble before the correct number or picture.

Key:  =

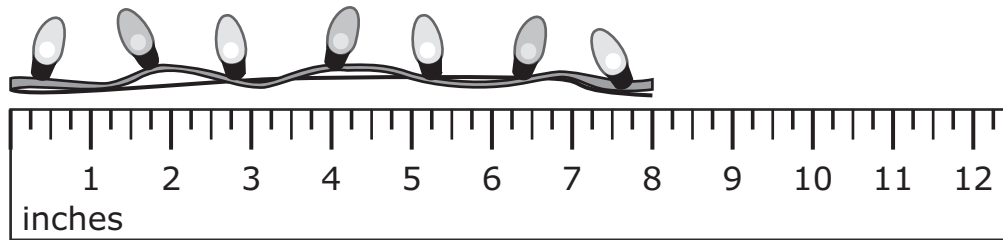
A	2
●	3

 students

Favorite Books									
Science fiction	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">A</td><td></td></tr> <tr><td style="text-align: center;">●</td><td> </td></tr> <tr><td style="text-align: center;">C</td><td>  </td></tr> <tr><td style="text-align: center;">D</td><td>     </td></tr> </table>	A		●	 	C	  	D	     
A									
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Fantasy	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">A</td><td></td></tr> <tr><td style="text-align: center;">B</td><td> </td></tr> <tr><td style="text-align: center;">●</td><td>  </td></tr> <tr><td style="text-align: center;">D</td><td>     </td></tr> </table>	A		B	 	●	  	D	     
A									
B	 								
●	  								
D	     								

FAST Mathematics Sample Items Answer Key

4. Robert measures a string of lights, as shown.



How long, in inches, is the string of lights?

Write your response in the shaded box below.

8

Other correct responses: any equivalent value

5. This question has **two** parts.

An equation with an unknown whole number, u , is shown.

$$u \times 12 = 24$$

Part A

Which expression can be used to find the value of the unknown whole number, u ?

- (A) $24 + 12$
- (B) $24 - 12$
- (C) 24×12
- $24 \div 12$

Part B

What is the value of the unknown whole number, u ?

Write your response in the shaded box below.

2

Option D: **This answer is correct.** The student selected the related division expression.

FAST Mathematics Sample Items Answer Key

6. A comparison with a missing number is shown.

$$\square > 7,652$$

Select all the numbers that could be the missing number.

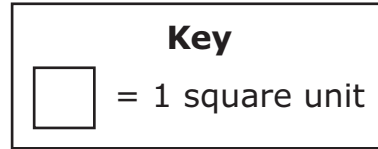
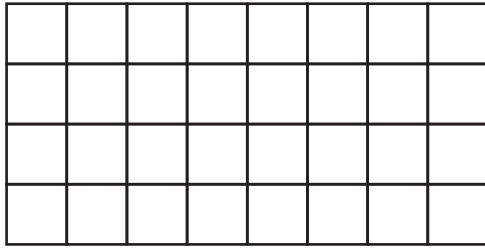
- (A) 7,526
- (B) 7,652
- (C) 7,752
- (D) 7,662
- (E) 7,625

Option C: This answer is correct. The student identified the hundreds digit of 7 as being greater than a hundreds digit of 6.

Option D: This answer is correct. The student identified the thousands and hundreds digits equal to the given number and a tens digit greater than the 5 in 7,652.

FAST Mathematics Sample Items Answer Key

7. A rectangle is tiled with unit squares, as shown.



Kenny says that he can find the area of the rectangle by counting all of the tiles.

Hank says there is another way to find the area.

Select a word and number to explain how Hank could find the area without counting the tiles.

For each box, fill in the bubble before the word or number that is correct.

Hank could

<input type="radio"/> (A) add
<input type="radio"/> (B) subtract
<input checked="" type="radio"/> (C) multiply
<input type="radio"/> (D) divide

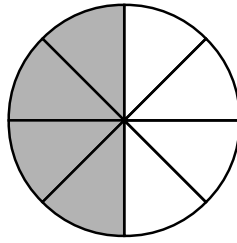
 the side lengths of 4 and 8 to get an area of

<input type="radio"/> (A) 2
<input type="radio"/> (B) 4
<input type="radio"/> (C) 12
<input checked="" type="radio"/> (D) 32

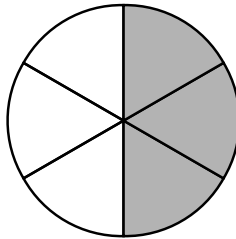
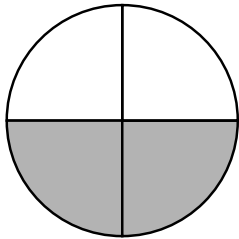
 square units.

FAST Mathematics Sample Items Answer Key

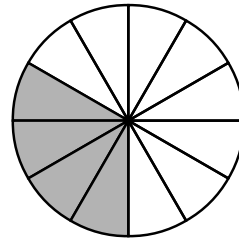
8. A fraction model is shown.



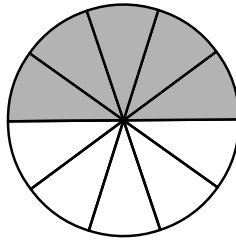
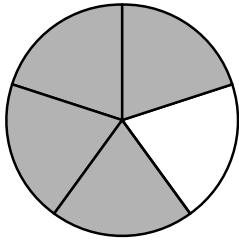
Select all the fraction models that are equivalent to the model shown.



E



B



Option A: **This answer is correct.** The student determined that this model is equivalent to the given model because each model has the same fraction of the whole shaded.

Option C: **This answer is correct.** The student determined that this model is equivalent to the given model because each model has the same fraction of the whole shaded.

Option D: **This answer is correct.** The student determined that this model is equivalent to the given model because each model has the same fraction of the whole shaded.

FAST Mathematics Sample Items Answer Key

9. Jamael does his math and science homework. He starts working on his homework at 3:57 p.m. and finishes at 4:32 p.m. He does not take a break.

How many minutes could Jamael have worked on each subject?

Write your responses in the shaded boxes below.

Math:

10

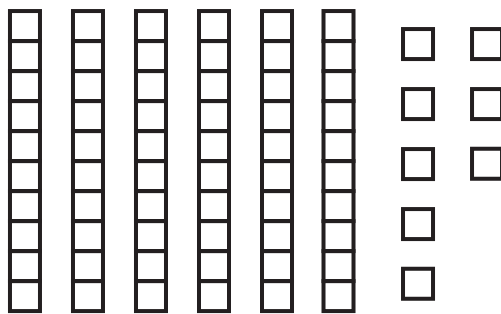
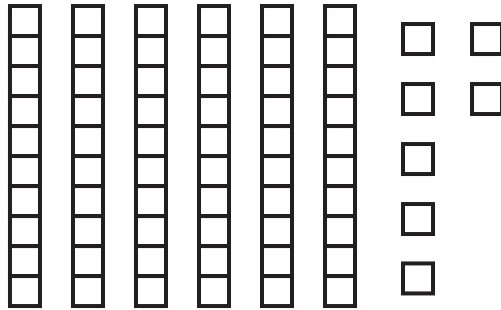
Science:

25

Other correct responses: any two amounts of time whose sum is 35 minutes where neither value is equal to 0

FAST Mathematics Sample Items Answer Key

10. A model of a number is shown.



Complete the statement to describe whether the number is even or odd.
For each blank, fill in the bubble **before** the word that is correct.

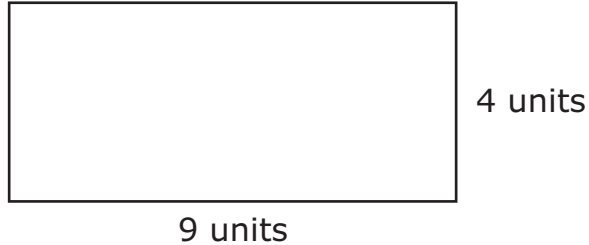
The number is _____ [even odd] because

it _____ [can cannot] be split into two groups of equal size.

FAST Mathematics Sample Items Answer Key

11. This question has **two** parts.

A rectangle is shown.



Part A

Fill in bubbles to select the expression that represents the area (in square units) and the perimeter (in units) of the rectangle.

	9 + 4	9 + 9 + 4 + 4	9 × 4
Area	Ⓐ	Ⓑ	<input checked="" type="radio"/>
Perimeter	Ⓓ	<input checked="" type="radio"/>	Ⓕ

Part B

Fill in bubbles to select the value that represents the area (in square units) and the perimeter (in units) of the rectangle.

	13	22	26	36
Area	Ⓐ	Ⓑ	Ⓒ	<input checked="" type="radio"/>
Perimeter	Ⓔ	Ⓕ	<input checked="" type="radio"/>	Ⓗ

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