Grade 3

FAST Mathematics

Sample Test Materials

The purpose of these sample test materials is to orient teachers and students to the types of paper-based FAST Mathematics questions. By using these materials, students will become familiar with the types of items and response formats they may see on a paper-based 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. The sample test materials are not intended to guide classroom instruction.

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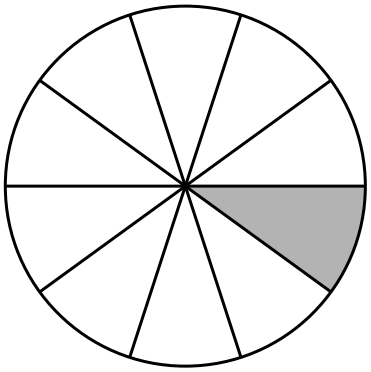
Use the space in this Test and Response Book to do your work. Then, completely fill in the bubble beside the answer you choose. For some items, filling in more than one bubble may be required, so read each item carefully. If you change your answer, be sure to erase completely.

Some items will ask you to write a response in a shaded box or boxes. See the sample item below.

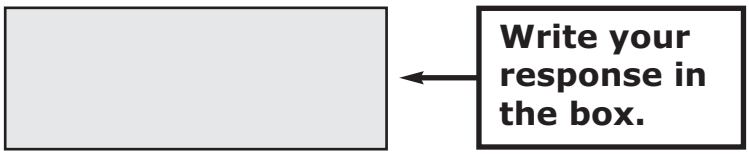
Sample Item:

A circle with one part shaded is shown.



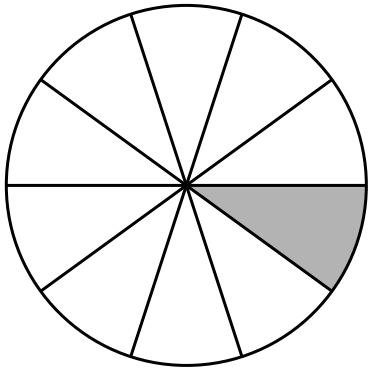
Create a fraction that represents the shaded part of the circle.

Write your response in the shaded box below.



Some items may have more than one box, so read each item carefully. Your answers for the items with response boxes may contain whole numbers or fractions.

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.

Go On

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

Ⓐ 700 + 40 + 3

Ⓑ 7,000 + 40 + 3

Ⓒ 7,000 + 400 + 3

Ⓓ 7,000 + 400 + 30

Go On

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.

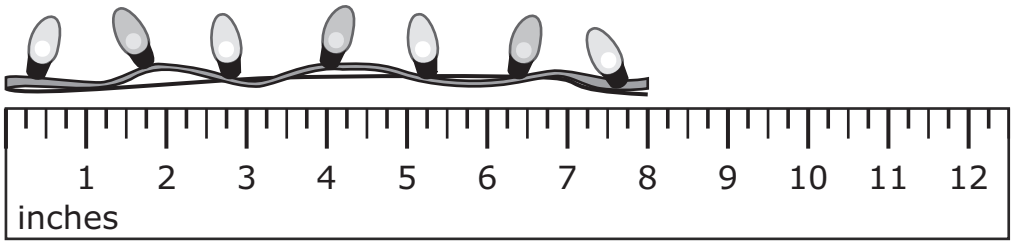
Create a scaled picture graph to show the data. For each box, fill in the bubble before the correct number or picture.

Key: 📖 = Ⓐ 2 Ⓑ 3 students

Favorite Books	
Science fiction	Ⓐ 📖 Ⓑ 📖📖 Ⓒ 📖📖📖 Ⓓ 📖📖📖📖📖📖
Comic	Ⓐ 📖 Ⓑ 📖📖 Ⓒ 📖📖📖 Ⓓ 📖📖📖📖📖📖
Fantasy	Ⓐ 📖 Ⓑ 📖📖 Ⓒ 📖📖📖 Ⓓ 📖📖📖📖📖📖

Go On

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.

Go On

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?

Ⓐ $24 + 12$

Ⓑ $24 - 12$

Ⓒ 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.

Go On

6. A comparison with a missing number is shown.

$$\square > 7{,}652$$

Select all the numbers that could be the missing number.

Ⓐ 7,526

Ⓑ 7,652

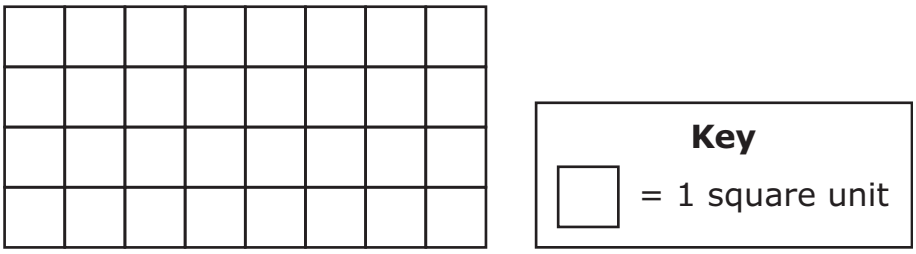
Ⓒ 7,752

Ⓓ 7,662

Ⓔ 7,625

Go On

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

Ⓐ add
Ⓑ subtract
Ⓒ multiply
Ⓓ divide

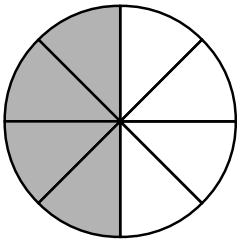
the side lengths of 4 and 8 to get an area of

Ⓐ 2
Ⓑ 4
Ⓒ 12
Ⓓ 32

square units.

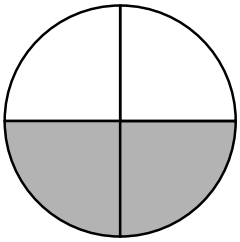
Go On

8. A fraction model is shown.

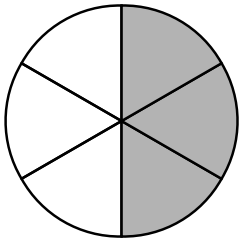


Select all the fraction models that are equivalent to the model shown.

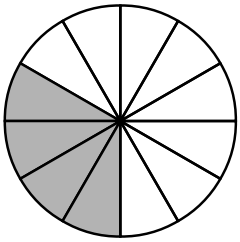
Ⓐ



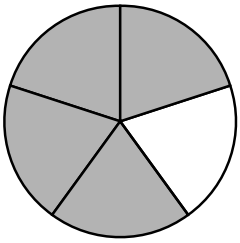
Ⓒ



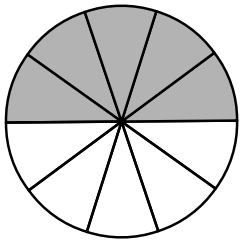
Ⓔ



Ⓑ



Ⓓ



Go On

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?

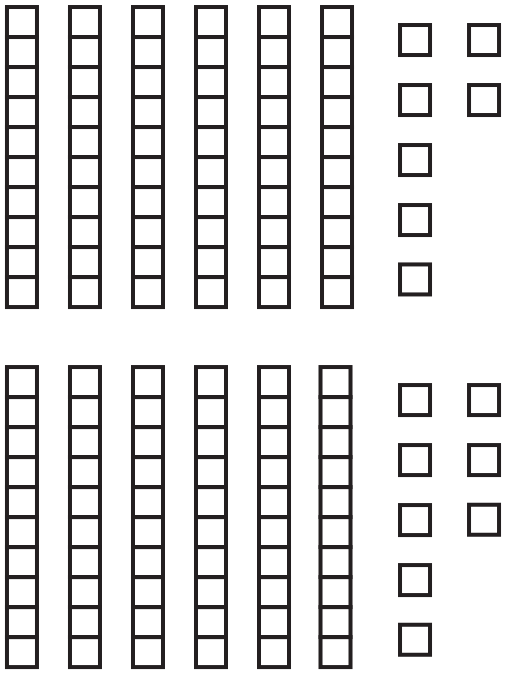
Write your responses in the shaded boxes below.

Math:

Science:

Go On

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.

Go On

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	Ⓐ	Ⓑ	Ⓒ
Perimeter	Ⓓ	Ⓔ	Ⓕ

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	Ⓐ	Ⓑ	Ⓒ	Ⓓ
Perimeter	Ⓔ	Ⓕ	Ⓖ	Ⓗ

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