Grade 5

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.

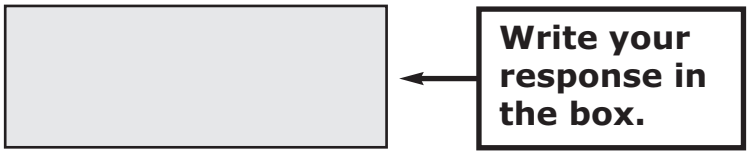
Use the space in this Test and Response Book to do your work. Then, completely fill in the bubble beside the answer you choose. For some items, filling in more than one bubble may be required, so read each item carefully. If you change your answer, be sure to erase completely.

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

Sample Item:

What number is one-hundredth more than 732.12?

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, fractions, or decimals.

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Grade 5 FAST Mathematics Reference Sheet

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Customary Conversions

1 foot = 12 inches
1 yard = 3 feet
1 mile = 5,280 feet
1 mile = 1,760 yards

1 cup = 8 fluid ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts

1 pound = 16 ounces
1 ton = 2,000 pounds

Metric Conversions

1 centimeter = 10 millimeters
1 meter = 100 centimeters
1 meter = 1000 millimeters
1 kilometer = 1000 meters

1 liter = 1000 milliliters

1 gram = 1000 milligrams
1 kilogram = 1000 grams

Time Conversions

1 minute = 60 seconds
1 hour = 60 minutes
1 day = 24 hours
1 week = 7 days

Formulas

Rectangle

$P = l + l + w + w$

$P = 2l + 2w$

$A = l \times w$

Rectangular Prism

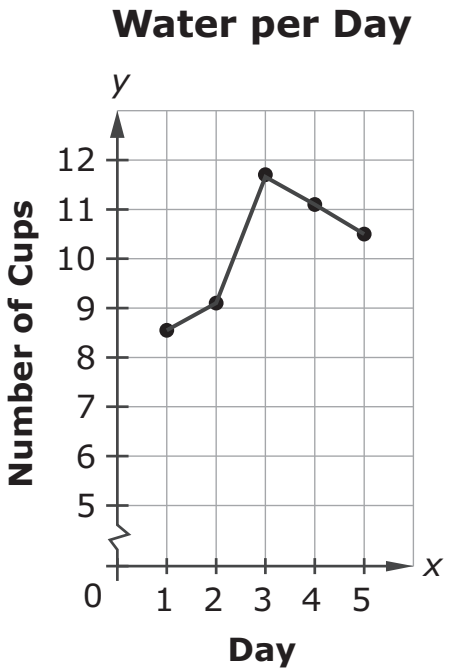
$V = l \times w \times h$

or

$V = B \times h$

Key	
l = length w = width h = height B = area of the base	P = perimeter A = area V = volume

1. The graph shows the number of cups of water Beatrice drinks each day for five days.



How many cups of water does Beatrice drink on Day 4?

Ⓐ 11.8

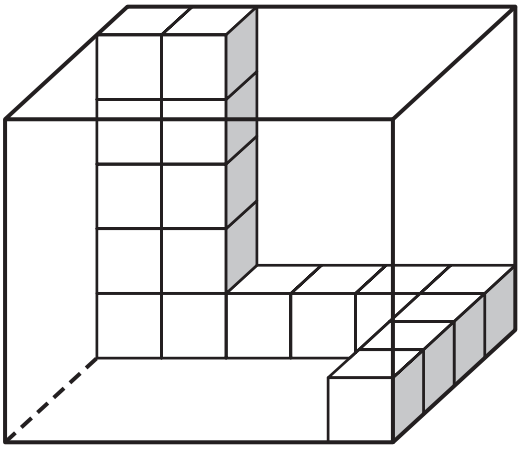
Ⓑ 11.2

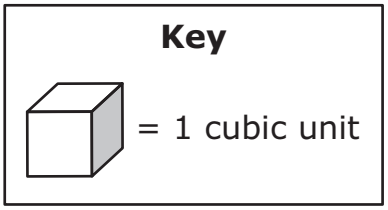
Ⓒ 10.5

Ⓓ 10.2

Go On

2. A right rectangular prism is partially filled with unit cubes, as shown.





How many more unit cubes are needed to completely fill the right rectangular prism?

Write your response in the shaded box below.

Go On

3. Fill in bubbles to match each expression with the statement that describes it.

	The sum of 4 and 3, multiplied by 7	The product of 3 and 7, added to 4	The product of 4 and 7, added to 3
3 + 7 × 4	Ⓐ	Ⓑ	Ⓒ
4 + 3 × 7	Ⓓ	Ⓔ	Ⓕ
(4 + 3) × 7	Ⓖ	Ⓗ	Ⓘ

Go On

4. This question has **two** parts.

Jerry incorrectly subtracts 3.6 from 3.966, as shown.

$$\begin{array}{r} 3.9\,6\,6 \\ -\quad 3.6 \\ \hline 3.9\,3\,0 \end{array}$$

Part A

Which statement **best** describes Jerry's mistake?

Ⓐ Jerry should have regrouped.

Ⓑ Jerry should have subtracted 3.966 from 3.6.

Ⓒ The decimal is in the wrong place in Jerry's answer.

Ⓓ When setting up the problem, Jerry did not line up the place values.

Part B

What is the correct answer?

Ⓐ 0.3

Ⓑ 0.366

Ⓒ 3.606

Ⓓ 393.0

Go On

5. A number is shown.

35.714

Select words to show one way to decompose the number. For each box, fill in the bubble before the word that is correct.

35 [Ⓐ ones / Ⓑ tens] + 71 [Ⓐ tenths / Ⓑ hundredths / Ⓒ thousandths] + 4 [Ⓐ tenths / Ⓑ hundredths / Ⓒ thousandths]

Go On

6. An expression with a missing number is shown.

$$7 + 3 \times 2 \times \square$$

Select all the expressions that are equivalent to the given expression.

Ⓐ $(7 + 3) \times 2 \times \square$

Ⓑ $7 + (3 \times 2) \times \square$

Ⓒ $7 + 3 \times (2 \times \square)$

Ⓓ $7 + (3 \times 2 \times \square)$

Ⓔ $(7 + 3) \times (2 \times \square)$

Go On

7. The table shows the amount of rainwater three students gather.

Student	Amount
Damien	$1\frac{1}{8}$ gallons
Taylor	1 gallon and 4 cups
Veronica	$19\frac{1}{2}$ cups

Who gathers the most rainwater, and who gathers the least rainwater? For each blank, fill in the bubble **before** the name that is correct.

Most: _____ [Ⓐ Damien Ⓑ Taylor Ⓒ Veronica]

Least: _____ [Ⓐ Damien Ⓑ Taylor Ⓒ Veronica]

Go On

8. Rebekah makes a quilt using red, blue, and purple fabric.

- She uses $3\frac{1}{2}$ total yards of fabric.
- She uses exactly $2\frac{3}{5}$ yards of purple fabric.

What are possible lengths, in yards, of red and blue fabric that Rebekah could use?

Write your responses in the shaded boxes below.

Red:

Blue:

Go On

9. An expression is shown.

$$12 \times \frac{5}{6}$$

Complete the sentence about the expression. For each box, fill in the bubble before the phrase that is correct.

The value of the expression is predicted to be

- Ⓐ equal to 12
- Ⓑ less than 12
- Ⓒ greater than 12

because 12 is being multiplied by a fraction

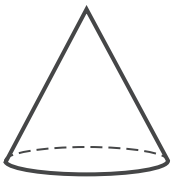
- Ⓐ equal to 1
- Ⓑ less than 1
- Ⓒ greater than 1

.

Go On

10. Select all the figures that have parallel bases.

Ⓐ



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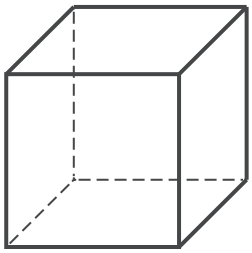

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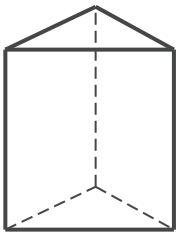

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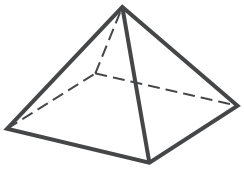

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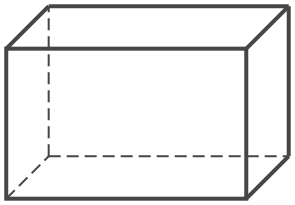

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