



Grade 5

FAST Mathematics

Sample Test Materials

Answer Key

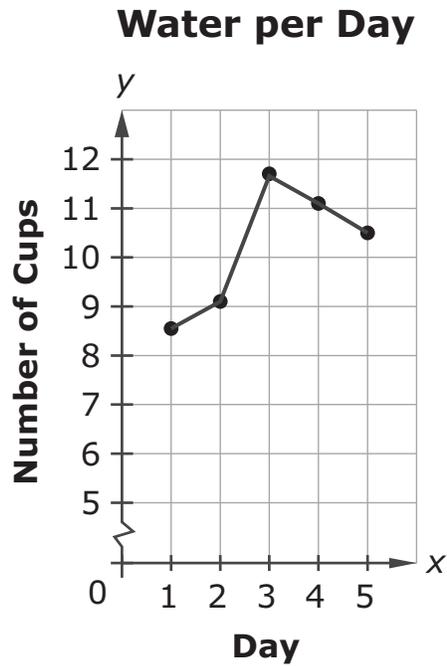
The Grade 5 FAST Mathematics Sample Test Materials Answer Key provides the correct response(s) for each item on the sample test. The sample items and answers are not intended to demonstrate the length of the actual test, nor should student responses be used as an indicator of student performance on the actual test.

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FAST Mathematics Sample Items Answer Key

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



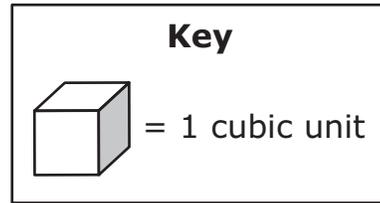
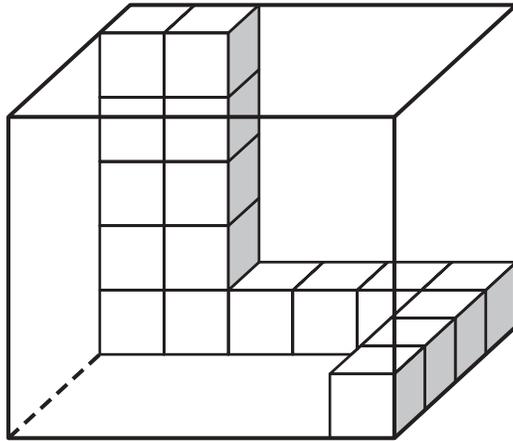
How many cups of water does Beatrice drink on Day 4?

- (A) 11.8
- (B) 11.2
- (C) 10.5
- (D) 10.2

Option B: This answer is correct. The student identified that the height of the data point is between 11 and 11.5, so 11.2 is a reasonable estimation.

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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.

103

Other correct responses: any equivalent value

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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
$3 + 7 \times 4$	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/>
$4 + 3 \times 7$	<input type="radio"/> D	<input checked="" type="radio"/>	<input type="radio"/> F
$(4 + 3) \times 7$	<input checked="" type="radio"/>	<input type="radio"/> H	<input type="radio"/> I

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

Jerry incorrectly subtracts 3.6 from 3.966, as shown.

$$\begin{array}{r} 3.966 \\ - 3.6 \\ \hline 3.930 \end{array}$$

Part A

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

- (A) Jerry should have regrouped.
- (B) Jerry should have subtracted 3.966 from 3.6.
- (C) The decimal is in the wrong place in Jerry's answer.
- (D) When setting up the problem, Jerry did not line up the place values.

Part B

What is the correct answer?

- (A) 0.3
- (B) 0.366
- (C) 3.606
- (D) 393.0

Part A

Option D: This answer is correct. The student recognized that the subtraction problem was set up incorrectly because the decimals (and therefore place values) are not in line.

Part B

Option B: This answer is correct. The student correctly subtracted 3.6 from 3.966.

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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

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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.

- (A) $(7 + 3) \times 2 \times \square$
- $7 + (3 \times 2) \times \square$
- $7 + 3 \times (2 \times \square)$
- $7 + (3 \times 2 \times \square)$
- (E) $(7 + 3) \times (2 \times \square)$

Option B: **This answer is correct.** The student correctly identified that this expression is equivalent to the given expression.

Option C: **This answer is correct.** The student correctly identified that this expression is equivalent to the given expression.

Option D: **This answer is correct.** The student correctly identified that this expression is equivalent to the given expression.

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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: _____ [A Damien B Taylor C Veronica]

Least: _____ [A Damien B Taylor C Veronica]

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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:

$\frac{3}{10}$

Blue:

$\frac{6}{10}$

Other correct responses: any two nonzero values that sum to $\frac{9}{10}$

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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

- | |
|---|
| <input type="radio"/> (A) equal to 12 |
| <input checked="" type="radio"/> (B) less than 12 |
| <input type="radio"/> (C) greater than 12 |

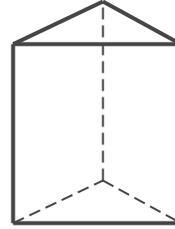
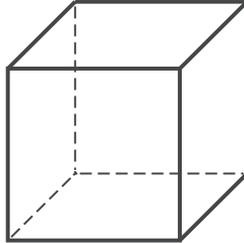
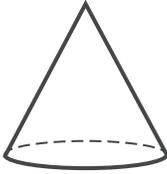
because 12 is being multiplied by a fraction

- | |
|--|
| <input type="radio"/> (A) equal to 1 |
| <input checked="" type="radio"/> (B) less than 1 |
| <input type="radio"/> (C) greater than 1 |

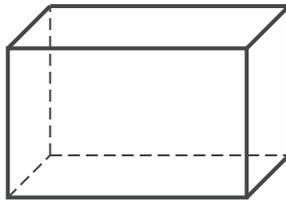
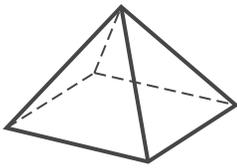
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10. Select all the figures that have parallel bases.

(A)



(B)



Option C: **This answer is correct.** The student identified a figure with parallel bases.

Option D: **This answer is correct.** The student identified a figure with parallel bases.

Option E: **This answer is correct.** The student identified a figure with parallel bases.



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