



# **Grade 4**

## FAST Mathematics

### Sample Test Materials

### Answer Key

The Grade 4 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

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1. What number is one-hundredth more than 732.12?

732.13				
←	→	↶	↷	✕
1	2	3		
4	5	6		
7	8	9		
0	.	$\frac{\square}{\square}$		

**Other correct responses:** any equivalent value

## FAST Mathematics Sample Items Answer Key

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2. A list of numbers is shown.

419,572

431,257

413,725

Select numbers to order them from greatest to least.

;  ;  

## FAST Mathematics Sample Items Answer Key

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3. Hanson adds cups of flour to a bowl to make dough.

- He needs  $8\frac{3}{5}$  cups of flour.
- He has already added  $6\frac{2}{5}$  cups.

How many more cups of flour does Hanson need to add?

Ⓐ  $1\frac{1}{5}$

Ⓑ  $2\frac{1}{5}$

Ⓒ  $2\frac{5}{10}$

Ⓓ  $14\frac{5}{10}$

Option B: **This answer is correct.** The student correctly subtracted  $6\frac{2}{5}$  from  $8\frac{3}{5}$ .

## FAST Mathematics Sample Items Answer Key

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4. Marcy draws a rectangle.

- The rectangle has an area of 12 square inches and a perimeter of 16 inches.
- Marcy wants to draw a second rectangle with the same perimeter but a different area.

What are possible values, in inches, for the length and width of the second rectangle?

Length:

Width:

←	→	↶	↷	✕
1	2	3		
4	5	6		
7	8	9		
0	.	$\frac{\square}{\square}$		

**Other correct responses:** any equivalent value

**Note:** The values for length and width can be reversed.

## FAST Mathematics Sample Items Answer Key

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5. Hannah has 3 baseballs. Each baseball weighs  $\frac{5}{16}$  pound.

Select all the expressions that represent the total weight, in pounds, of all 3 baseballs.

$\frac{5}{16} + 3$

$\frac{5}{16} \times 3$

$\frac{5}{16} \times \frac{3}{1}$

$\frac{5}{16} \times \frac{3}{3}$

$\frac{5}{16} + \frac{5}{16} + \frac{5}{16}$

Option B: **This answer is correct.** The student correctly identified that  $\frac{5}{16} \times 3$  accurately represents the situation.

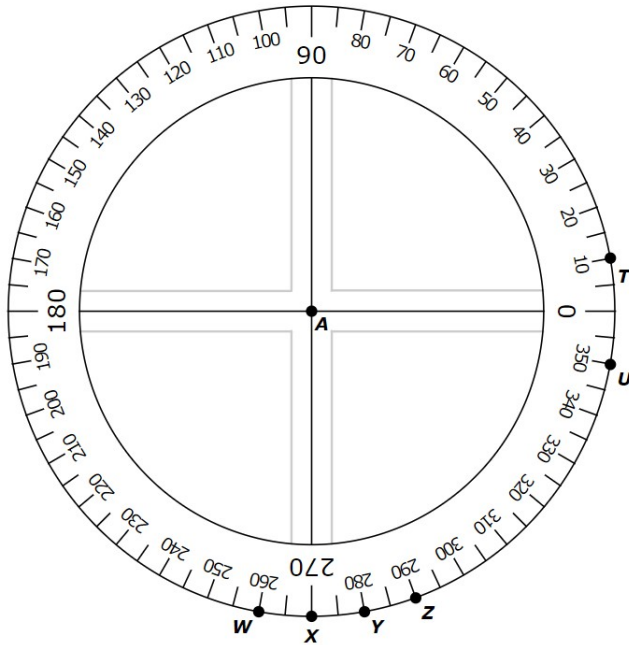
Option C: **This answer is correct.** The student correctly identified that  $\frac{5}{16} \times \frac{3}{1}$  accurately represents the situation.

Option E: **This answer is correct.** The student correctly identified that the numerator of the expression  $\frac{5}{16}$  can be added to itself 3 times to find the total weight of 3 baseballs.



## FAST Mathematics Sample Items Answer Key

6. A protractor with labeled points is shown.



Select two points to draw two rays to form an angle measuring 80 degrees.

Draw a ray from point A to point .

Draw a second ray from point A to point .

### ***Other correct responses:***

Select two points to draw two rays to form an angle measuring 80 degrees.

Draw a ray from point A to point .

Draw a second ray from point A to point .

## FAST Mathematics Sample Items Answer Key

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7. Match each decimal with all its equivalent fractions.

	$\frac{9}{10}$	$\frac{90}{100}$	$\frac{9}{100}$
0.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0.09	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## FAST Mathematics Sample Items Answer Key

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8. This question has **two** parts.

**Part A**

Select the correct comparison of the two decimals.

237.1 > 237.04 

**Part B**

Which statement explains why the comparison is true?

- Ⓐ One-tenth is less than four-hundredths.
- Ⓑ One-tenth is greater than four-hundredths.
- Ⓒ One-hundredth is less than four-tenths.
- Ⓓ One-hundredth is greater than four-tenths.

*Option B: This answer is correct. The student identified that one-tenth is larger than four-hundredths.*

FAST Mathematics Sample Items Answer Key

9. What is the value of  $3\frac{3}{8} - 2\frac{6}{8}$ ?

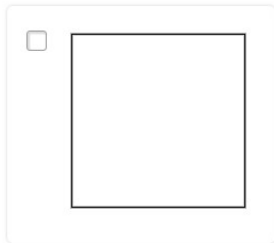
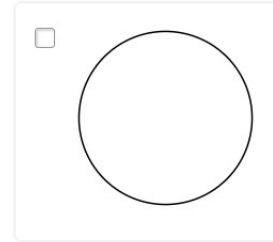
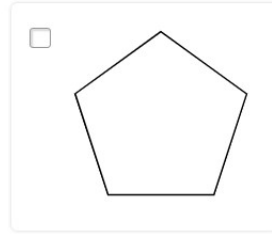
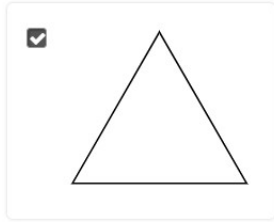
5		
—		
8		
←	→	↶
↷	✖	
1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

**Other correct responses:** any equivalent value

## FAST Mathematics Sample Items Answer Key

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**10.** Select all the shapes that have at least one acute angle.



*Option A: This answer is correct. The student recognized that each angle in the triangle is less than 90 degrees and is therefore acute.*

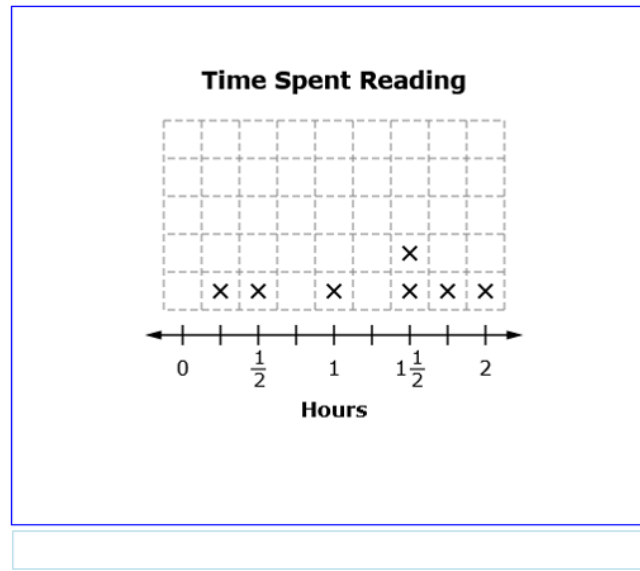
*Option D: This answer is correct. The student recognized that the angle at each point of the star is less than 90 degrees and is therefore acute.*

## FAST Mathematics Sample Items Answer Key

- 11.** Layla reads her book every day for a week. The amount of time she spends reading each day, in hours, is shown.

$2, \frac{1}{2}, 1\frac{1}{2}, \frac{1}{4}, 1, 1\frac{3}{4}, 1\frac{1}{2}$

Click above the number line to create a line plot for these times.

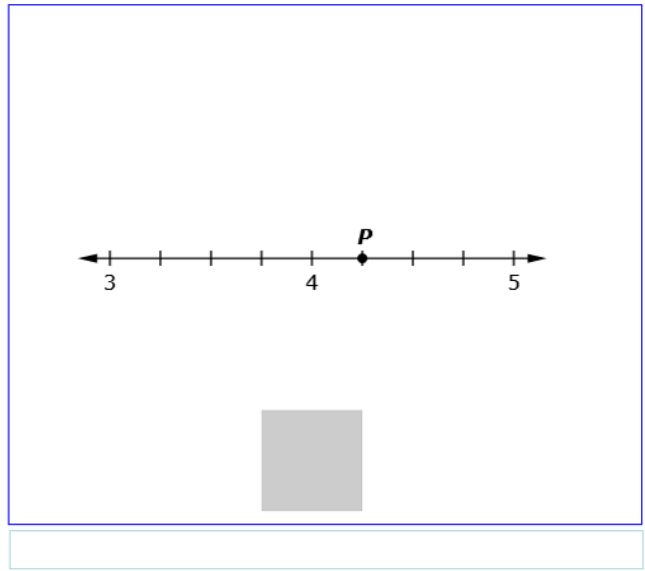


## FAST Mathematics Sample Items Answer Key

- 12.** A list of four decimal numbers is shown.

3.75, 4.25, 3.5, 4.0

Drag point  $P$  to the number line to represent the largest decimal in the list.



## FAST Mathematics Sample Items Answer Key

- 13.** Vince reads  $y$  poems each day for 5 days. He reads a total of 45 poems.

Create an equation to represent how many poems,  $y$ , Vince reads each day.

$5 \times y = 45$

← → ↶ ↷ ✕

1	2	3	$y$			
4	5	6	+	-	$\times$	$\div$
7	8	9	<	=	>	
0	.	$\frac{\square}{\square}$	()			

**Other correct responses:** any equivalent equation



## FAST Mathematics Sample Items Answer Key

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- 14.** Amy and Gilbert ride their bikes 8 miles every hour for 3 hours. They each write an equation to determine how many miles,  $m$ , they ride their bikes, as shown.

Amy	Gilbert
$m \div 3 = 8$	$3 \times m = 8$

Complete the sentence to show how Amy and Gilbert can determine how many miles they ride their bikes.

They can use  equation to determine that they ride their bikes  miles.

***Other correct responses: any equivalent value of 24***

## FAST Mathematics Sample Items Answer Key

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**15.** This question has **two** parts.

Velma wants to buy 2 books for \$6.59 each and a pack of markers for \$2.47.

She makes an error in her work to find the total amount of money she needs to buy the items.

**Part A**

Click on the number in Velma's work where her error first appears.

Step	Work
Step 1	$6.59 + 2.47 + 2.47$
Step 2	$6.59 + 4.94$
Step 3	11.53

**Part B**

What is the correct total amount of money, in dollars, Velma needs?

\$

**Other correct responses:** Part A, either 2.47 is accepted;  
Part B, any equivalent value

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