



Grade 4

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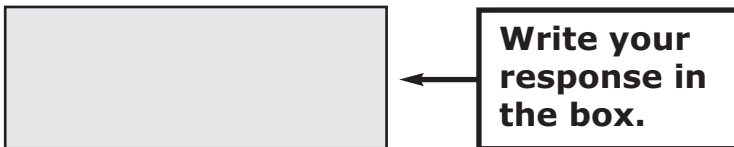
Use the space in this Test and Response Book to do your work. Then, completely fill in the bubble beside the answer you choose. For some items, filling in more than one bubble may be required, so read each item carefully. If you change your answer, be sure to erase completely.

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

Sample Item:

What number is one-hundredth more than 732.12?

Write your response in the shaded box below.



The image shows a sample item layout. On the left is a large, empty rectangular box with a light gray fill and a black border. To its right is a smaller rectangular box with a black border containing the text "Write your response in the box." in bold. A black arrow points from the right side of this smaller box to the left side of the larger shaded box.

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 4 FAST Mathematics Reference Sheet

Customary Conversions

1 foot = 12 inches

1 yard = 3 feet

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 pound = 16 ounces

Metric Conversions

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

Formulas

Rectangle $P = l + l + w + w$
 $A = l \times w$

Key	
l = length w = width	P = perimeter A = area

DO NOT REMOVE THIS SHEET

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

Write your response in the shaded box below.



FAST Mathematics Sample Items

2. A list of numbers is shown.

419,572
431,257
413,725

Select numbers to order them from greatest to least. For each box, fill in the bubble before the number that is correct.

<input type="radio"/> A 419,572	<input type="radio"/> A 419,572	<input type="radio"/> A 419,572
<input type="radio"/> B 431,257 ;	<input type="radio"/> B 431,257 ;	<input type="radio"/> B 431,257
<input type="radio"/> C 413,725	<input type="radio"/> C 413,725	<input type="radio"/> C 413,725

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?

- (A) $1\frac{1}{5}$
- (B) $2\frac{1}{5}$
- (C) $2\frac{5}{10}$
- (D) $14\frac{5}{10}$

FAST Mathematics Sample Items

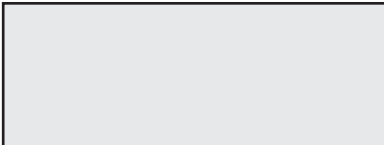
4. Marcy draws a rectangle.

- 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?

Write your responses in the shaded boxes below.

Length: 

Width: 

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.

(A) $\frac{5}{16} + 3$

(B) $\frac{5}{16} \times 3$

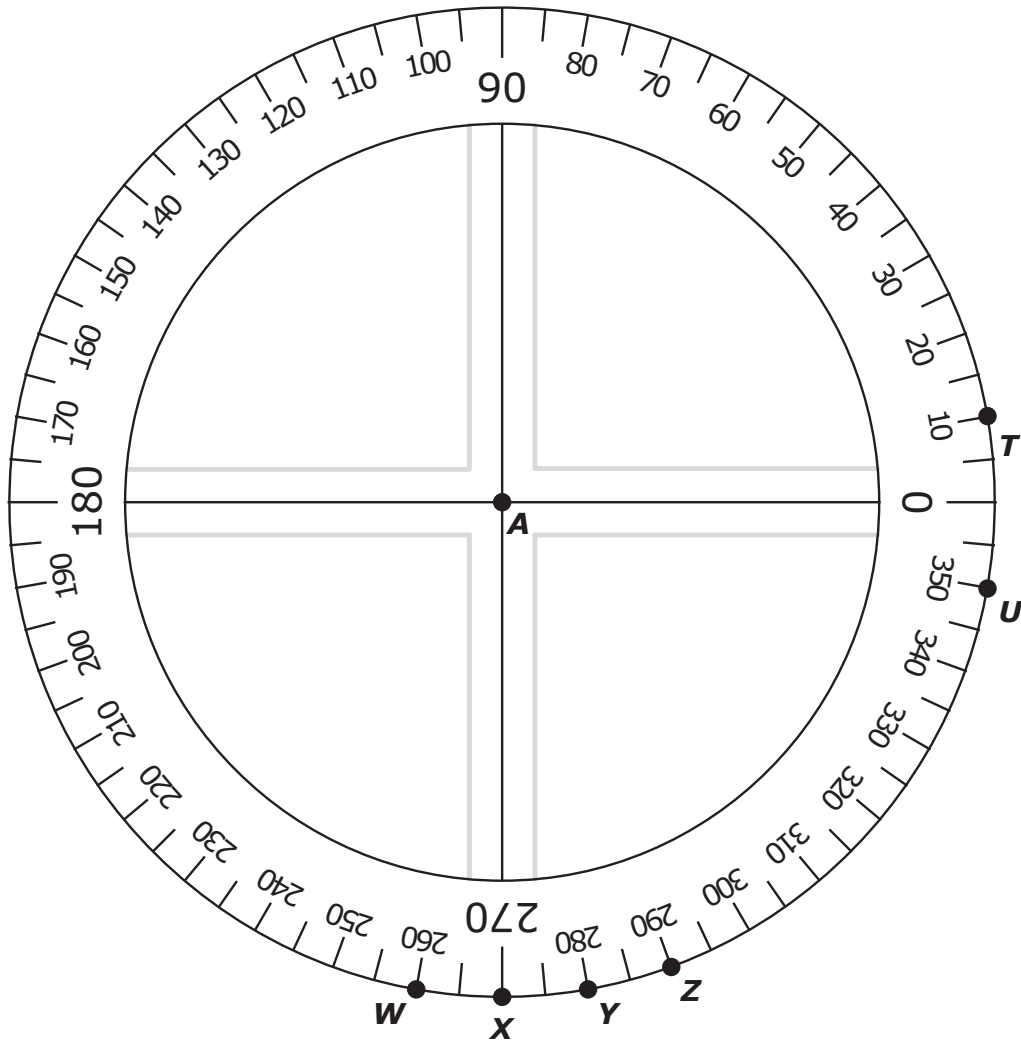
(C) $\frac{5}{16} \times \frac{3}{1}$

(D) $\frac{5}{16} \times \frac{3}{3}$

(E) $\frac{5}{16} + \frac{5}{16} + \frac{5}{16}$

FAST Mathematics Sample Items

6. A protractor with labeled points is shown.



Select two points to draw two rays to form an angle measuring 80 degrees. For each blank, fill in the bubble **before** the point that is correct.

Draw a ray from point A to point _____ [A T B U].

Draw a second ray from point A to point _____ [A W B X C Y D Z].

FAST Mathematics Sample Items

7. Fill in bubbles to match each decimal with all its equivalent fractions.

	$\frac{9}{10}$	$\frac{90}{100}$	$\frac{9}{100}$
0.9	(A)	(B)	(C)
0.09	(D)	(E)	(F)

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

Part A

Fill in the bubble to select the correct comparison of the two decimals.

- | |
|--|
| <input type="radio"/> (A) $237.1 < 237.04$ |
| <input type="radio"/> (B) $237.1 > 237.04$ |

Part B

Which statement explains why the comparison is true?

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

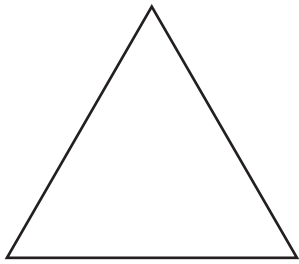
9. What is the value of $3\frac{3}{8} - 2\frac{6}{8}$?

Write your response in the shaded box below.

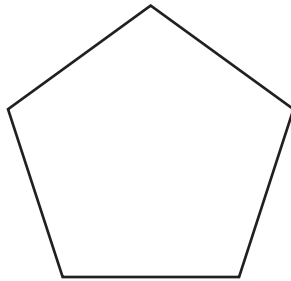
FAST Mathematics Sample Items

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

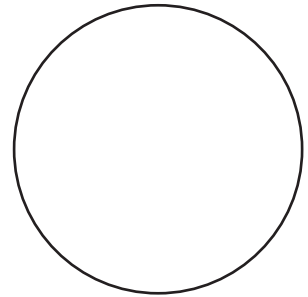
(A)



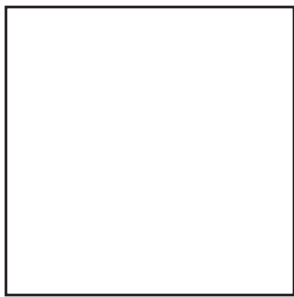
(C)



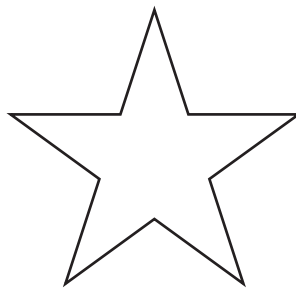
(E)



(B)



(D)





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