



State of Texas Assessments of Academic Readiness

# **GRADE 5 Mathematics**

## **Paper Item Sampler**

- 1** Rosemary walks for exercise each week. The table shows the number of miles she walked each week for three weeks.

Miles Walked

Week	Number of Miles
1	8.6
2	8.65
3	8.07

Use the symbols  $>$ ,  $<$ , or  $=$  to compare two of the numbers of miles walked.

Record your answer in the space provided.

- 2** Mr. Yeager drives 28.6 miles to work every day. How is the number 28.6 written in expanded notation?

Record your answers in the spaces provided.

$$\left( \square \times \square \right) + \left( \square \times \square \right) + \left( \square \times \square \right)$$

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- 3** Dion ran 3.75 kilometers each day to prepare for a race. What was the total number of kilometers that Dion ran in 28 days?

Record your answer in the space provided.

**4** Rebecca bought air filters at a store:

- She bought 8 air filters.
- Each air filter cost \$16.95.
- Rebecca used a coupon for \$7.50 off the total cost of the air filters.

The total amount in dollars and cents that Rebecca paid for these 8 air filters can be represented by this expression.

$$(8 \times 16.95) - 7.50$$

How much did Rebecca pay for the 8 air filters in dollars and cents?

Record your answer in the space provided.

\$

- 5 The table shows  $x$ -values and  $y$ -values for a number pattern.

$x$	$y$
12	18
24	30
48	54
60	66

What kind of pattern is shown in the table?

Select **ONE** correct answer in each box to complete the sentence.

The pattern is 

<input type="radio"/> (A) multiplicative
<input type="radio"/> (B) additive

 because the  $y$ -values

are 

<input type="radio"/> (A) 1.5 times
<input type="radio"/> (B) 6 more than

 the corresponding  $x$ -values.

- 
- 6 A student wants to plot a point at  $(4, 2)$  on a coordinate grid. What process should the student use when starting from the origin of the coordinate grid?

Select **ONE** correct answer in each box to complete each sentence.

On the  $x$ -axis, the student should move 

<input type="radio"/> (A) 2
<input type="radio"/> (B) 4

 units 

<input type="radio"/> (A) up
<input type="radio"/> (B) to the right

.

On the  $y$ -axis, the student should move 

<input type="radio"/> (A) 2
<input type="radio"/> (B) 4

 units 

<input type="radio"/> (A) up
<input type="radio"/> (B) to the right

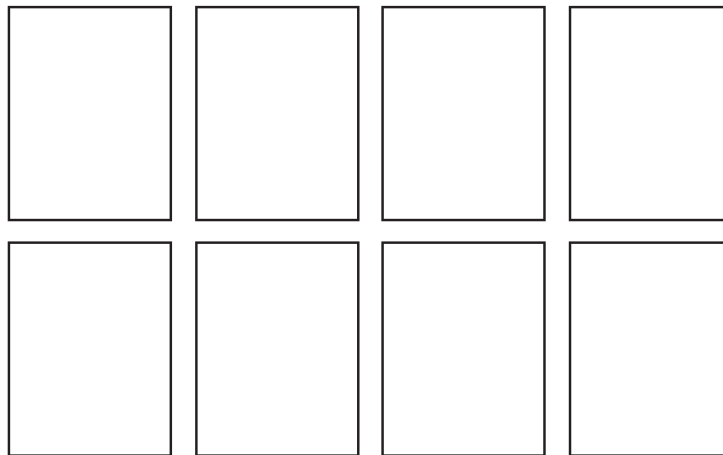
.

7 The rectangle shown represents 1 whole.



In the model below, select the number of rectangles that represents the product of  $\frac{3}{4}$  and 8.

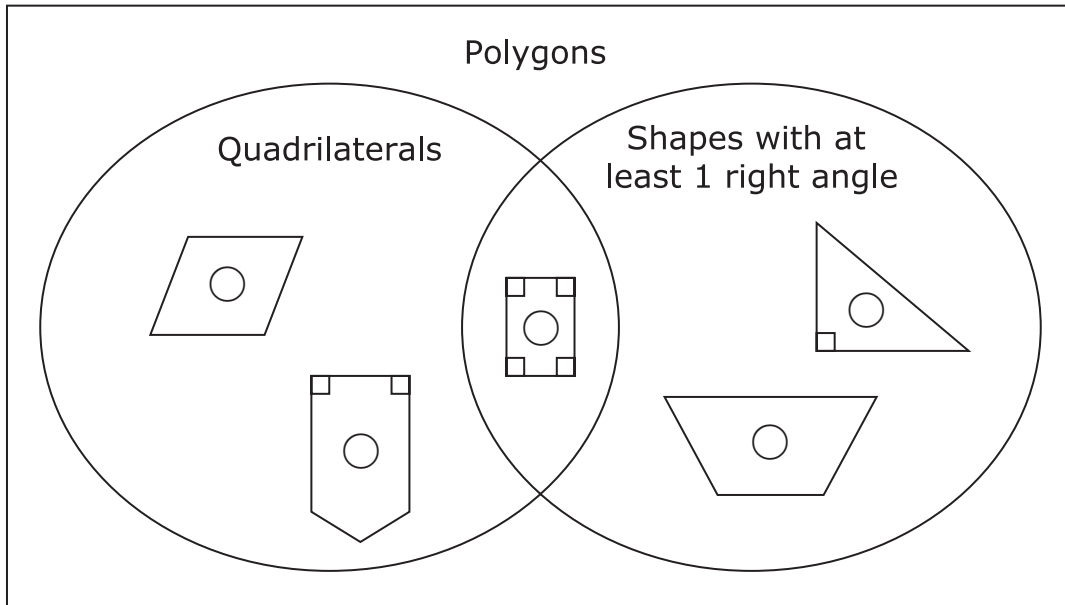
Select the rectangles you want to shade. Rectangles should be fully shaded.



- 8 The diagram shows how Stella organized some shapes in a Venn diagram.

Which shapes are **NOT** placed correctly?

Shade the **TWO** correct circles that represent the shapes.



- 9 Four students are traveling to a math contest. The table shows the weights of the four students' suitcases.

Weights of  
Suitcases

Student	Weight (pounds)
Juan	21.605
Tiana	24.8
Kimberly	21.48
Emanuel	24.75

What is the order of the weights of the suitcases in pounds from greatest to least?

Write the correct answer in each box.

21.605    24.8    21.48    24.75

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Greatest  $\longrightarrow$  Least



- 10** A pet store owner will order dog beds for his shop. The relationship between  $x$ , the number of boxes of dog beds he will order, and  $y$ , the number of dog beds he will receive, can be represented by the equation  $y = 12x$ .

Create a table that represents the equation  $y = 12x$ .

Select the correct answer for each box. Not all answers will be used.

**A 3   B 4   C 6   D 12   E 24   F 36   G 48**

Number of Boxes, $x$	Number of Dog Beds, $y$
1	<input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/> G
2	<input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/> G
3	<input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/> G
4	<input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/> G

- 
- 11** Which of these are examples of a property tax?

Select **TWO** correct answers.

- Tax paid on the value of a piece of furniture a person owns
- Tax paid on the value of a farm a person owns
- Tax paid on the value of a car a person owns
- Tax paid on the value of a necklace a person owns
- Tax paid on the value of a home a person owns

- 12** The word form of a number is four hundred sixty-two and seven thousandths. Which of these also represent this number?

Select **TWO** correct answers.

- 462.070
- 462.007
- $(4 \times 100) + (6 \times 10) + (2 \times 1) + (7 \times 0.001)$
- $(4 \times 100) + (6 \times 10) + (2 \times 1) + (7 \times 0.01)$
- $(4 \times 100) + (6 \times 10) + (2 \times 1) + (7 \times 0.1)$

**STAAR  
GRADE 5  
Mathematics  
Paper Item Sampler**

