

**Ready® Mathematics****Unit 1 Unit Assessment****Form B****Solve the problems.**

- 1** Paul is adding mulch along the edge of his driveway. He orders 7 bags of mulch for \$392. How much would it cost if Paul orders 9 bags instead?
- A** \$392
- B** \$420
- C** \$448
- D** \$504
- 2** The Goff family has a fish tank with different colors of fish. There are 8 black fish, 5 white fish, and 3 gold fish.

**Part A**

Draw a picture or diagram to model the situation.

**Part B**

What is the ratio of gold fish to total fish? Write the ratio in 3 ways.



**Unit 1 Unit Assessment** *continued***Form B**

- 3** Keisha sees on a measuring cup that 16 fluid ounces is the same as 2 cups.

**Part A**

Complete the table to show the number of fluid ounces in different numbers of cups.

<b>Number of fluid ounces</b>		16	24			
<b>Number of cups</b>	1	2	3	4	5	6

**Part B**

What is the unit rate of fluid ounces to cups?

- 4** Matthew buys 13 uniforms for the baseball team. He pays \$455 in total. Which ratios describe the relationship of price to uniforms?

Choose all that apply.

- A** 1 to 13
- B** 13 : 455
- C**  $\frac{35}{1}$
- D** 1 to 35
- E** 455 to 13
- 5** Jody packs 2 skirts, 3 pairs of pants, and 4 pairs of shorts for her vacation. What is the ratio of shorts to pants?
- A** 4 : 3
- B** 4 : 9
- C** 3 : 9
- D** 3 : 4

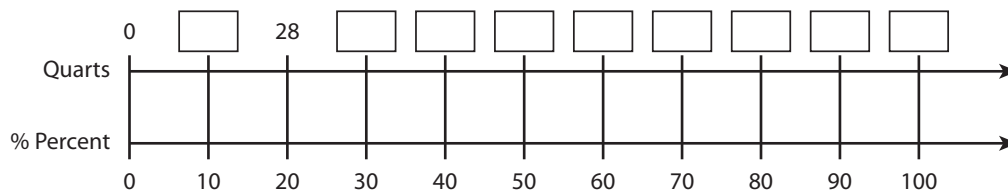


**Unit 1 Unit Assessment** *continued***Form B**

- 6** A restaurant uses 80% of its olive oil in one week. They now have 28 quarts of olive oil left.

**Part A**

Use a double number line to find the number of quarts the restaurant had at the beginning of the week.



The restaurant started the week with \_\_\_\_\_ quarts of olive oil.

**Part B**

How many quarts did they use during the week?

The restaurant used \_\_\_\_\_ quarts of olive oil.

**Part C**

There are 4 quarts in a gallon. How many gallons of olive oil did the restaurant use during the week? Explain how you found your answer.

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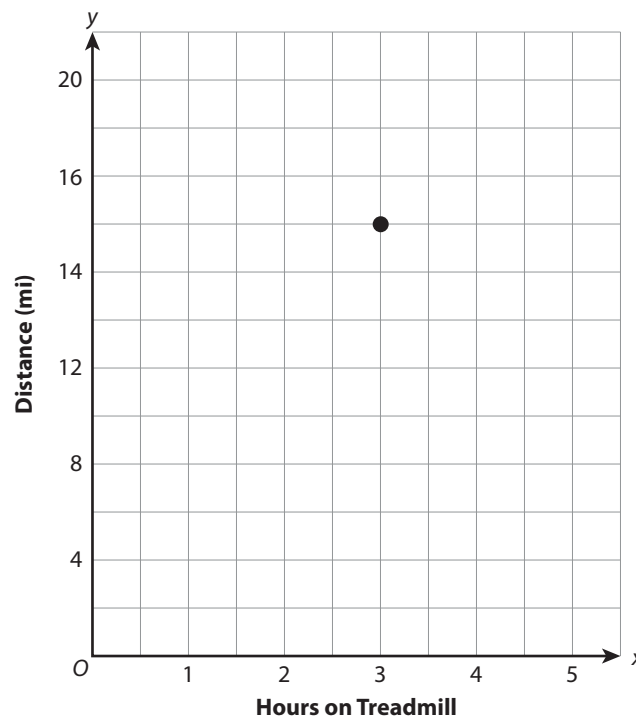
**Unit 1 Unit Assessment** *continued***Form B**

- 7** A craft store has 540 packs of yarn on sale. The store sells 65% of the packs by the end of the day.

Determine if each statement about this situation is correct. Choose *Yes* or *No* for each statement.

- a. The expression  $540 \div 0.65$  can be used to find how many packs were sold.  Yes  No
- b. The store has 189 packs left.  Yes  No
- c. The store sold 351 packs.  Yes  No
- d. The store has 45% of the packs left.  Yes  No

- 8** Rob runs at a steady pace on his treadmill. In 3 hours, he runs 15 miles. The graph represents this situation.



Which point will be on the graph and represent the unit rate of miles per hour?

- A** (1, 3)                      **C** (2, 8)
- B** (1, 5)                      **D** (2, 10)



**Unit 1 Unit Assessment** *continued***Form B**

- 9** A store sells gravel in small bags and large bags. The small bags have 6 pounds of gravel for \$35.88 and the large bags have 15 pounds of gravel for \$81.75.

**Part A**

Write a ratio of price to pounds for each bag.

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**Part B**

Write an equivalent fraction that gives the unit rate of price per pound for each bag.

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**Part C**

Which type of bag is the better buy? Explain.

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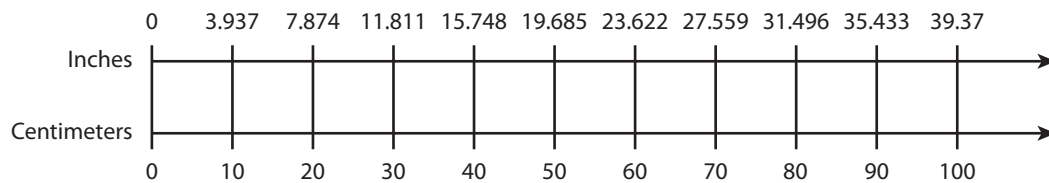
**Unit 1 Unit Assessment** *continued***Form B**

- 10** Meghann drives 486 miles on the highway to visit her cousin. She uses cruise control to drive at a constant speed. Meghann travels 216 miles in the first 4 hours. At that rate, how long will the trip take?

**Show your work.**

The trip will take \_\_\_\_\_.

- 11** There are 39.37 inches in 1 meter. Tell whether each statement is *True* or *False*.



- a. This double number line shows the equivalent ratios of inches and centimeters.  True  False
- b. The unit rate is 3.937 inches per centimeter.  True  False
- c. 50 centimeters is equivalent to 19.685 inches.  True  False
- d. The unit rate is 2.54 centimeters per inch.  True  False