

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

**1** Leo is adding gravel to the edge of his driveway. He orders 6 bags of gravel for \$252. How much would it cost if Leo orders 8 bags instead?

**A** \$336

**B** \$378

**C** \$420

**D** \$504

**2** The Lin family has a fish tank with different colors of fish. There are 7 blue fish, 4 green fish, and 4 yellow fish.

**Part A**

Draw a picture or diagram to model the situation.

**Part B**

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



**Unit 1 Unit Assessment** *continued***Form A**

- 3** Keisha sees on a scale that 32 ounces is the same as 2 pounds.

**Part A**

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

<b>Number of ounces</b>		32	48			
<b>Number of pounds</b>	1	2	3	4	5	6

**Part B**

What is the unit rate of ounces to pounds?

- 4** Malcolm buys 15 uniforms for the basketball team. He pays \$375 in total. Which ratios describe the relationship of price to uniforms?

Choose all that apply.

- A** 15 : 375
- B**  $\frac{25}{1}$
- C** 1 to 15
- D** 375 to 15
- E** 1 : 25
- 5** Carla packs 4 pairs of pants, 2 pairs of shorts, and 3 skirts for her vacation. What is the ratio of skirts to pants?
- A** 4 : 3
- B** 4 : 9
- C** 3 : 9
- D** 3 : 4



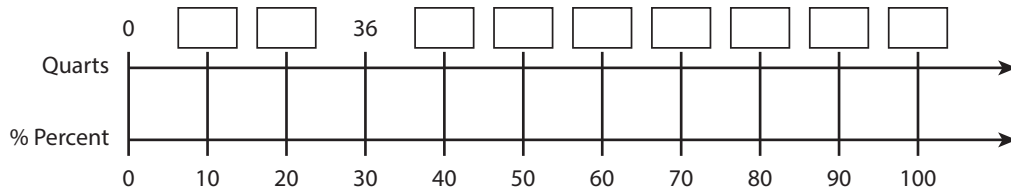
**Unit 1 Unit Assessment** *continued*

**Form A**

**6** A bakery uses 70% of its milk in one week. They now have 36 quarts of milk left.

**Part A**

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



The bakery started the week with \_\_\_\_\_ quarts of milk.

**Part B**

How many quarts did the bakery use during the week?

The bakery used \_\_\_\_\_ quarts of milk.

**Part C**

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

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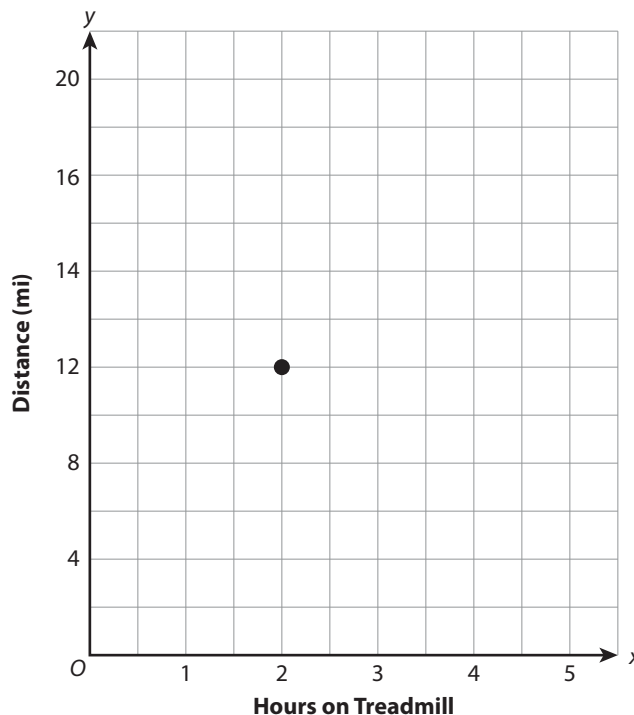
**Unit 1 Unit Assessment** *continued***Form A**

- 7** An outdoor store has 240 beach chairs on sale. The store sells 85% of the chairs by the end of the day.

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

- a. The store has 36 beach chairs left.  Yes  No
- b. The expression  $240 \div 0.85$  can be used to find how many chairs were sold.  Yes  No
- c. The store has 15% of the chairs left.  Yes  No
- d. The store sold 204 beach chairs.  Yes  No

- 8** Gregory runs at a steady pace on his treadmill. In 2 hours, he runs 12 miles. The graph represents this situation.



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

- A** (1, 6)                      **C** (3, 16)
- B** (1, 8)                      **D** (3, 18)



**Unit 1 Unit Assessment** *continued***Form A**

- 9** A store sells grass seed in small bags and large bags. The small bags have 7 pounds of seed for \$27.93 and the large bags have 20 pounds of seed for \$66.98.

**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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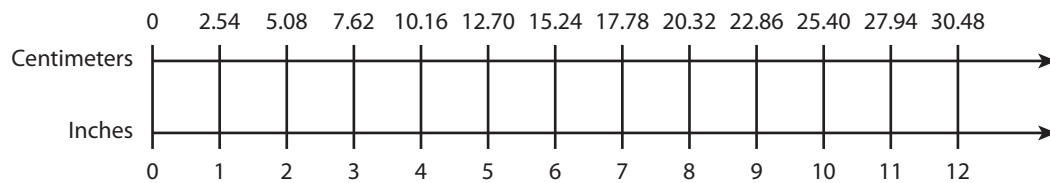
**Unit 1 Unit Assessment** *continued***Form A**

- 10** Kelly drives 448 miles on the highway to visit her cousin. She uses cruise control to drive at a constant speed. Kelly travels 192 miles in the first 3 hours. At that rate, how long will the trip take?

**Show your work.**

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

- 11** There are 30.48 centimeters in 1 foot. Tell whether each statement is *True* or *False*.



- a. This double number line shows the equivalent ratios of centimeters and feet.  True  False
- b. The unit rate is 2.54 centimeters per inch.  True  False
- c. 6 inches is equivalent to 15.24 centimeters.  True  False
- d. The unit rate is 0.039 inches per centimeter.  True  False

