

# KEY

NAME

DATE

PERIOD

## Unit 3, Lesson 5: Comparing Speeds and Prices

1. Mai and Priya were on scooters. Mai traveled 15 meters in 6 seconds. Priya travels 22 meters in 10 seconds. Who was moving faster? Explain your reasoning.

Mai	
M	Sec
15	6
x10	
150	60
÷6	
25	1

Priya	
M	Sec
22	10
x6	
132	60
÷10	
13.2	6

Mai - Faster  
in 60 sec 150 > 132

OR  
2.5 meter / 1 sec > 2.2 meter / 1 sec

2. Here are the prices for cans of juice that are the same brand and the same size at different stores. Which store offers the best deal? Explain your reasoning.

Store X: 4 cans for \$2.48

Store Y: 5 cans for \$3.00

Store Z: 59 cents per can

$$\frac{\$2.48}{4 \text{ cans}}$$

62 per 1 can

$$\frac{\$3.00}{5 \text{ cans}}$$

60 per 1 can best deal

$$\frac{\$0.59}{1 \text{ can}}$$

3. Costs of homes can be very different in different parts of the United States.

- a. A 450-square-foot apartment in New York City costs \$540,000. What is the price per square foot? Explain or show your reasoning.

$$\frac{\$540,000}{450 \text{ ft}^2} = \$1,200 \text{ per ft}^2$$

$$\frac{\$540,000}{450} = 1,200$$

- b. A 2,100-square-foot home in Cheyenne, Wyoming, costs \$110 per square foot. How much does this home cost? Explain or show your reasoning.

$$\$231,000$$

$$110 \times 2100 = 231,000$$

4. There are 33.8 fluid ounces in a liter. There are 128 fluid ounces in a gallon. About how many liters are in a gallon?

a. 2

$$\frac{128}{33.8} \approx 4$$

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b. 3

c. 4

d. 5

Is your estimate larger or smaller than the actual number of liters in a gallon? Explain how you know.

(from Unit 3, Lesson 4) *Larger because 33.8 x 4 is a little bigger than 128.02.*

5. Diego is 165 cm tall. Andre is 1.7 m tall. Who is taller, Diego or Andre? Explain your reasoning.

*D 165 cm = 1.65 m  
so Andre taller 1.7 > 1.65*

(from Unit 3, Lesson 3)

6. Name an object that could be about the same length as each measurement.

a. 4 inches

b. 6 feet

c. 1 meter

d. 5 yards

*check with neighbor 😊*

e. 6 centimeters

f. 2 millimeters

g. 3 kilometers

(from Unit 3, Lesson 2)