

Name: _____

Date: _____

Class: _____

Which is the better buy?

1. Last month, Math-Mart had three different sales on calculators: 2 for \$18.50, 5 for \$45.50, and 3 for \$27.60. Determine the unit price for each sale. Then tell which sale was the best buy.

Sale 1:

Sale 2:

Sale 3:

2. A car traveled 345.5 miles on 11 gallons of gas. Assuming the same rate of gas consumption, how far could this car travel on 13 gallons of gas? Round your answer to the nearest tenth. Show your work.
3. A maple tree casts a shadow that is 15 feet long. At the same time, a child that is four feet tall casts a shadow that is 2.5 feet long.
 - a. Draw a sketch of this situation, labeling the tree, the child, and the shadows.
 - b. Write a proportion that describes this situation.
 - c. What is the height of the maple tree?

Name: _____ Date: _____ Class: _____

4. A recipe that makes 32 cookies calls for two cups of flour. How much flour would be needed to make 12 cookies from the same recipe?
5. Last month, Smart-Shop had these three different sales on computer games: 3 for \$26.85, 5 for \$44.65, and 2 for \$17.84. Determine the unit price for each sale. Then tell which sale was the best buy.

Sale 1:

Sale 2:

Sale 3:

6. A car traveled 268.4 miles on nine gallons of gas. Assuming the same rate of gas consumption, how far could this car travel on 11 gallons of gas? Round your answer to the nearest tenth.
7. A sculpture casts a shadow that is 11.5 meters long. At the same time, a 3-meter high fence post casts a shadow that is 2.3 meters long.

Draw a sketch of this situation, labeling the sculpture, the fence post, and the shadows.

Write a proportion that describes this situation.

What is the height of the sculpture?

Name: _____

Date: _____

Class: _____

8. Find each rate and unit rate.

420 miles in 7 hours

360 customers In 30 days

40 meters in 16 seconds

Rate: _____

Rate: _____

Rate: _____

Unit Rate: _____

Unit Rate: _____

Unit Rate: _____

9. Write three ratios that are equivalent to the one given: 18right-handed students for every 4left-handed student.

Show your work!