

Math 8

Name: \_\_\_\_\_

Partner: \_\_\_\_\_

Block: \_\_\_\_\_

**Ratios and Rates PROBLEM SOLVING**

*Show all your work leading to the final answer. Circle your final answers.*

1. You can buy 4 cans of green beans at the Village Market for \$2.40. You can buy 10 cans of the same green beans at Save-on for \$5.50. Which store has the better buy?

2. You are shopping for apples. You can buy 3 apples for \$1.32 at the Quick Mart, or you can buy 5 apples for \$2.16 at Stop and Save. Which place has the better buy?

3. Gas mileage is the number of miles you can drive on a gallon of gasoline. A new car can travel 330 miles on 10 gallons of gasoline.

a. What is the car's gas mileage?

b. How far could you travel on 40 gallons of gasoline?

4. An ice cream factory makes 270 quarts of ice cream in 5 hours.
- How many quarts could be made in 48 hours?
  - How many quarts could be made in one day?

5. A ferris wheel can accommodate 50 people in 15 minutes.
- What is the rate per hour?
  - How many people could ride the ferris wheel in 4 hours?

6. The bakers at the Healthy Bakery can make 150 bagels in 5 hours.
- What is their rate per hour?
  - How many bagels can they make in 17 hours?

7. A jet travels 830 km in 2 hours.
- At this rate, how far could the jet fly in 10 hours?
  - What is the rate of speed of the jet?