

**Lesson 3.5** Problem Solving**SHOW YOUR WORK**

Solve the problems below using ratios and unit rates.

1. Gas mileage is the number of miles you can drive on a gallon of gasoline. A test of a new car results in 440 miles driven on 20 gallons of gas. How far could you drive on 60 gallons of gas? \_\_\_\_\_

What is the car's gas mileage? \_\_\_\_\_

2. An ice-cream factory makes 100 quarts of ice cream in 5 hours. How many quarts could be made in 36 hours? \_\_\_\_\_

What was that rate per day? \_\_\_\_\_

3. A jet travels 590 miles in 5 hours. At this rate, how far could the jet fly in 10 hours? \_\_\_\_\_

What is the rate of speed of the jet? \_\_\_\_\_

4. You can buy 5 cans of green beans at the Village Market for \$2.30, or you can buy 10 of them at Best Food for \$5.10.

Which place is the better buy? \_\_\_\_\_

5. You can buy 3 apples at the Quick Stop for \$1.29. You can buy 5 apples at Shop and Save for \$2.45.

Which place is the better buy? \_\_\_\_\_

6. A ferris wheel can accommodate 55 people in 15 minutes.

How many people could ride the ferris wheel in 2 hours? \_\_\_\_\_

What is the rate per hour? \_\_\_\_\_

1.

2.

3.

4.

5.

6.