

# Extra Practice ■ Chapter 5

## LESSON 5-1

One day, a veterinarian saw 20 cats and 30 dogs. Write each ratio in all three forms. Make sure each ratio is in simplest form.

- cats to dogs
- dogs to cats
- cats to animals
- A compact car gets 135 miles per 5 gallons of gas. A midsize car gets 210 miles per 10 gallons of gas. Which car gets more miles per gallon?

## LESSON 5-2

- Danielle skipped a rope 248 times in 4 minutes. On average, how many times did Danielle skip the rope per minute?
- A serving of 8 crackers contains 128 Calories. What is the number of Calories per cracker?
- Jamie's family drives 350 miles to her grandparents' house in 7 hours. What is their average speed in miles per hour?
- A store sells milk in 3 sizes. The 128 fl oz container costs \$4.59, the 64 fl oz container costs \$3.29, and the 32 fl oz container costs \$1.99. Which size milk has the lowest price per fluid ounce?

## LESSON 5-3

Determine whether the ratios are proportional.

- $\frac{25}{40}, \frac{30}{48}$
- $\frac{32}{36}, \frac{24}{28}$
- $\frac{5}{6}, \frac{15}{18}$
- $\frac{21}{49}, \frac{18}{42}$

Find a ratio equivalent to each ratio. Then use the ratios to write a proportion.

- $\frac{72}{81}$
- $\frac{15}{40}$
- $\frac{24}{32}$
- $\frac{5}{13}$

## LESSON 5-4

Use cross products to solve each proportion.

- $\frac{8}{n} = \frac{12}{18}$
- $\frac{4}{7} = \frac{p}{28}$
- $\frac{u}{14} = \frac{21}{28}$
- $\frac{3}{21} = \frac{t}{49}$
- $\frac{y}{35} = \frac{63}{45}$
- $\frac{6}{n} = \frac{48}{12}$
- $\frac{32}{x} = \frac{52}{117}$
- $\frac{56}{80} = \frac{105}{m}$

- The ratio of a person's weight on Earth to his weight on the Moon is 6 to 1. Rafael weighs 90 pounds on Earth. How much would he weigh on the Moon?
- In 2 weeks, a taxi traveled 2,460 miles. At this rate, how many miles will the taxi travel in one year (52 weeks)?
- Yvette's phone plan charges \$1.00 for every 20 text messages sent. How much will Yvette be charged if she sends 65 text messages?

