

# Lesson 6 Homework Practice

## Solve Proportional Relationships

Solve each proportion.

1.  $\frac{b}{5} = \frac{8}{16}$

2.  $\frac{18}{x} = \frac{6}{10}$

3.  $\frac{t}{6} = \frac{30}{36}$

4.  $\frac{11}{10} = \frac{n}{14}$

5.  $\frac{2.5}{35} = \frac{2}{d}$

6.  $\frac{3.5}{18} = \frac{z}{36}$

7.  $\frac{0.45}{4.2} = \frac{p}{14}$

8.  $\frac{2.4}{6} = \frac{2.8}{s}$

9.  $\frac{3.6}{k} = \frac{0.2}{0.5}$

For Exercises 10–12, assume all situations are proportional.

- 10. CLASSES** For every girl taking classes at the martial arts school, there are 3 boys who are taking classes at the school. If there are 236 students taking classes, write and solve a proportion to predict the number of boys taking classes at the school.
- 11. BICYCLES** An assembly line worker at Rob's Bicycle factory adds a seat to a bicycle at a rate of 2 seats in 11 minutes. Write a proportion relating the number of seats  $s$  to the number of minutes  $m$ . At this rate, how long will it take to add 16 seats? 19 seats?
- 12. PAINTING** Lisa is painting a fence that is 26 feet long and 7 feet tall. A gallon of paint will cover 350 square feet. Write and solve a proportion to determine how many gallons of paint Lisa will need.