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.

Lesson 5 Homework Practice

Graph Proportional Relationships

For Exercises 1 and 2, determine whether the relationship between the two quantities shown in each table are proportional by graphing on the coordinate plane. Explain your reasoning.

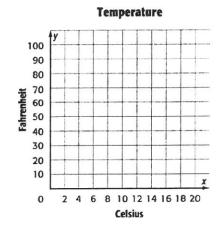
Temperature (Degrees)			
Celsius	Fahrenheit		
0	32		
5	41		
10	50		
15	59		
20	68		

2.

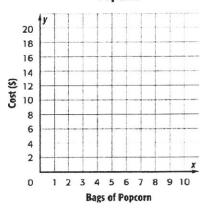
Popcorn			
Bags of Popcorn	Cost (\$)		
0	0		
1	4		
2	8		
3	12		
4	16		

3. MOVIES An online DVD rental company charges \$15 a month for unlimited rentals. Determine whether the total paid after each month is proportional to number of months by graphing on the coordinate plane. Explain your

reasoning.



Popcorn



Online DVD Rentals

