

**LESSON** **Practice B**  
**2-6 Rates, Ratios, and Proportions**

1. The ratio of freshman to sophomores in a drama club is 5:6. There are 18 sophomores in the drama club. How many freshmen are there? \_\_\_\_\_

**Find each unit rate.**

2. Four pounds of apples cost \$1.96. \_\_\_\_\_  
 3. Sal washed 5 cars in 50 minutes. \_\_\_\_\_

4. A giraffe can run 32 miles per hour. What is this speed in feet per second? Round your answer to the nearest tenth. \_\_\_\_\_

**Solve each proportion.**

5.  $\frac{y}{4} = \frac{10}{8}$  \_\_\_\_\_  
 6.  $\frac{2}{x} = \frac{30}{-6}$  \_\_\_\_\_  
 7.  $\frac{3}{12} = \frac{-24}{m}$  \_\_\_\_\_

8.  $\frac{3t}{10} = \frac{1}{2}$  \_\_\_\_\_  
 9.  $\frac{32}{4} = \frac{b+4}{3}$  \_\_\_\_\_  
 10.  $\frac{7}{x} = \frac{1}{0.5}$  \_\_\_\_\_

11. Sam is building a model of an antique car. The scale of his model to the actual car is 1:10. His model is  $18\frac{1}{2}$  inches long. How long is the actual car? \_\_\_\_\_

12. The scale on a map of Virginia shows that 1 centimeter represents 30 miles. The actual distance from Richmond, VA to Washington, DC is 110 miles. On the map, how many centimeters are between the two cities? Round your answer to the nearest tenth. \_\_\_\_\_