CUMULATIVE REVIEW

Read carefully and solve.

1. Out of 80 students surveyed, 20 are girls. What is the ratio of girls to the total number of students surveyed?

2. The ratio of dogs to cats being adopted today at the animal rescue center is 7 to 5. If there are 70 cats up for adoption, how many dogs are there?

3. Fifty out of 125 eighth graders took summer school. What is the ratio of eighth graders who took summer school to the total number of eighth graders?

4. Uncle Buck used 5 cups of flour to make 8 dozen muffins. How many cups of flour would he need to make 20 dozen muffins?

5. On a map, 2 inches represents 60 miles. If a line between two cities measures 9 inches, how many miles apart are they?

6. Brian mixed 8 cups of milk to make 6 dozen brownies. At that rate, how many cups of milk would he need to make 15 dozen brownies?

7. A five-foot boy casts a two-foot shadow. At the same time, the shadow of the court house tower is 25 feet in length. How tall is the court house tower?

Solve.

8. $\frac{16}{x} = \frac{2}{3}$

9. $\frac{3}{4} = \frac{x}{12}$

10. $\frac{x}{18} = \frac{1}{3}$

11. $\frac{5}{9} = \frac{15}{x}$

12. $\frac{10}{21} = \frac{x}{7}$

13. $\frac{2}{9} = \frac{15}{x}$

Read carefully and solve.

14. If 2 cm represents 9 m on a scale drawing, how many meters do 15 cm represent?

15. If 15 inches represents 8 feet on a scale drawing, how long will a line segment be that represents 12 feet?

16. On a scale drawing of an office space floor plan, 1 inch represents 3 feet. The length of the copier room measures 7 inches on the floor plan. How many feet does that represent?

17. On a scale drawing, 3 inches represent 50 miles. If a line segment between two points measured 7 inches, how many miles would it represent?

18. On a map scale, 2 inches represent 7 miles. If two towns on the map are 35 kilometers apart, how long would the line segment be between the two towns on the map?