

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Proportion Word Problems

1) At the pound, the ratio of dogs to pets was 2 to 4. If there are eight pets how many dogs are there?

$$\# \text{ of dogs} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

total pets =

2) Of the 30 students in my class, there were 3 girls for every 9 students.

How many girls are there?

$$\text{girls} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

total =

3) My Dad can drive 50 miles in an hour. How many hours will it take him to drive 200 miles?

$$\text{miles} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

hours =

4) If the ratio of boys to girls is 4 to 6 and you have 8 boys in your class how many girls would you have?

$$\text{boys} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

girls =

5) At the salad bar, John paid \$2.00 for a salad that weighed 4 ounces. What was the price for 16 ounces of salad?

$$\text{ounces} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

amount =

6) What value for x makes the proportion true?

$$\frac{3}{4} = \frac{x}{40}$$

7) Of the 48 students in the sixth grade, the ratio of dogs to students was 2 to 3. How many 6<sup>th</sup> graders have a dog?

$$\text{dog} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$
$$\text{total} = \boxed{\phantom{00}}$$

8) The movers plan to load 12 boxes in an hour. How many hours will they take to load 84 boxes?

$$\text{boxes} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$
$$\text{hours} = \boxed{\phantom{00}}$$

9) Sara has 3 Snickers bars and 10 Kit Kats. What is the ratio of Snickers to the total number of candy bars?

$$\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

10) Louis will cross-multiply to solve a proportion for the value of x. After cross-multiplying, he has  $2x = 156$ . To get the correct value of x, by what number will Louis divide 156 by?

11) What value for x makes the proportion true?

$$\frac{4}{5} = \frac{40}{x}$$