

**Ratio**

**and**

**Proportion**

**Diagnostic**

**Quiz/Test**

Name \_\_\_\_\_

## Ratio/Proportion Quiz

### Word Bank:

Rate	ratio
Unlike units	minutes
Unit rate	like units
Convert	proportion

### Fill in the blank:

1. A \_\_\_\_\_ **is** the relationship in quantity, amount, or size between two or more things.
2. A \_\_\_\_\_ is a ratio that compares two quantities of different units.
3. Minutes and Hours would be a good example of \_\_\_\_\_.
4. Hours and Hours would be a good example of \_\_\_\_\_.
5. \_\_\_\_\_ a ratio of two numbers with different units in the denominator of the fraction is like 40 miles/ 1 hour.
6. In order to find equivalent ratios you must \_\_\_\_\_ unlike units into like units such as hours into \_\_\_\_\_.
7. \_\_\_\_\_ a portion of another object.

Equivalent Ratios: Cross product multiplication. (Remember to solve these problems, any unlike units must be changed to like units. Solve n.

1.  $\frac{5 \text{ gallons}}{25 \text{ miles}} = \frac{10 \text{ gallons}}{n}$
2.  $\frac{n}{1 \text{ hour}} = \frac{12 \text{ miles}}{3 \text{ hours}}$

3.  $\frac{360 \text{ minutes}}{480 \text{ miles}} = \frac{n \text{ hours}}{240 \text{ miles}}$

Complete the proportion table below:

Miles	45											
Hours	1	2	3	4	5							

Dollars	3.30											
Pounds	1	2	3	4	5							

## PART 2:

1. Which is the best deal?

### Cheerios

48 oz. for \$3.99

36 oz. for \$2.59

12 oz. for \$1.99

2. Which is the best deal?

### Diet Coke

12oz. for \$.99

64oz for \$2.99

128 oz \$4.99

3. How many miles will your parents drive in eight hours if they are traveling 65mph?

4. In a bag of blue and yellow candies, the ratio of blue candies to yellow candies is 3:5. If the bag contains 60 yellow candies, how many blue candies are there?
  
5. A room is 16 feet, 8 inches long, and the ratio of the length to the width is 4 to 5. What is the width of the room?
  
6. A school has 300 students. If the ratio of boys to girls is 31 to 44, how many more girls are there in the school?
7. The basketball game had 500 people in attendance. If the ratio of Hawk fans to Cyclone fans is 2:10, how many more Cyclone fans were there?
  
8. There were 420 birds migrating to the south in the sky this morning. If the ratio of Godwits to Geese in the sky this morning was 20:40, how many more Geese were in the sky?
  
9. There were 600 soldiers in the battle. The ratio of Texas soldiers to Mexican soldiers was 7:3, how many more Texan soldiers were in the battle?
  
10. I purchased the red & green Mm's for the holidays. There were 1800 Mm's in the bag. Surprisingly, the ratio of red Mm's to green Mm's was 4:5. How many less red Mm's were there in the bag?
  
11. The ratio of Jessica's stickers to Rod's stickers is 7:4. Jessica has 21 stickers. How many stickers does Rod have?
  
12. My grandma's secret recipe requires 14 eggs for every 4 cups of flour. How many eggs will I need if I use 16 cups of flour?

