

Ratios

Name: _____ Date: _____

Ratios

1. A scientist counted birds in a cornfield. He counted ten crows, six jays, and twelve hawks. What was the ratio of jays to hawks?
2. A parent makes 12 chocolate and 14 vanilla cupcakes for a party. What is the ratio of chocolate cupcakes to vanilla cupcakes that the parent made?
3. Homer's school has 240 students, 60 of which are 6th graders. What is the ratio of 6th graders to total students?
4. 14 out of the 70 papers Ms. Duvall graded were perfect scores. What is the ratio of papers graded to perfect scores?
5. There are 18 boys with blue eyes in the 9th grade and 20 girls with blue eyes in the 9th grade. What is the ratio of girls with blue eyes to boys with blue eyes in the 9th grade?
6. If there are 18 stripes and 3 buttons on a shirt, what is the ratio of buttons to stripes on the shirt?
7. Joey makes four baskets out of every ten shots? What is the ratio of baskets to misses?

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Proportions

A **proportion** is an equation that shows two ratios are equal. A proportion will often involve words that are extremely important to how it is written.

Take a look at these examples:

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

$$\frac{4}{5} = \frac{y}{20}$$

$$\frac{12}{y} = \frac{4}{18}$$

$$\frac{5}{9} = \frac{45}{y}$$

For every 12 hours of exercise Robin does, 5 hours are spent riding her bike. If Robin exercises 24 hours, how many hours did she ride her bike?

Hours of Exercise	<u>12</u>	<u>24</u>
Riding her Bike	5	<input type="text"/>

* Don't worry that it is improper. The only question they are asking is how many hours did she ride her bike. The pairing of the numbers with the appropriate words is the most important thing!

1.) The ratio of horses to sheep at the farm was 2 to 5. If there are 35 sheep, how many horses are there?

2.) Taco Bell sells 17 crispy tacos for every 5 chalupas that are sold. If Taco Bell sells 15 chalupas, how many crispy tacos were sold?

3.) For every 5 watches that are sold at JC Penney, they donate \$4 to charity. If JC Penney sells 30 watches, how much money would be donated to charity?

4.) If every 3 chocolate chip cookies in a bag contained 14 chocolate chips, how many chocolate chips would be expected in 12 cookies?