**Ratios**

**What is a ratio?** A ratio is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_.

**How are ratios like fractions?** They should \_\_\_\_\_\_\_\_\_\_\_\_\_\_ be \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Helpful Hint:** \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_!!!



3 ways to write a ratio

Example: Let’s say that out of 10 dentists, 7 recommend Crest. That means 3 dentists do not recommend Crest. The ratio of dents who recommend Crest to those who do not could be written in three ways:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

It is very important to notice what the question asks first when setting up your ratio.

**Write the ratios in three different ways.**

1. Triangles to squares

2. Squares to triangles

3. Shapes to triangles

4. Squares to shapes

**Write the ratio of burgers to chips in three different ways.**

**Write the ratio of chips to burgers in three different ways.**

Since a ratio can be written as a fraction, they can also be simplified like a fraction.

10/15 = \_\_\_\_\_\_\_\_\_\_\_\_ 10**:**15 = \_\_\_\_\_\_\_\_\_\_\_ 10 to 15 = \_\_\_\_\_\_\_\_\_\_

These are called \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_.

**Simplify these ratios**

**12 : 14 = \_\_\_\_\_\_\_\_\_\_\_\_\_ 20 : 24 = \_\_\_\_\_\_\_\_\_\_\_\_ 10 : 25 = \_\_\_\_\_\_\_\_\_\_\_\_**

**8 : 56 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3:16 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7:20 = \_\_\_\_\_\_\_\_\_\_\_\_\_**



**You try**!

6) fruit to candy \_\_\_\_\_\_\_\_\_\_\_\_\_

7) Takis and fruit to seaweed \_\_\_\_\_\_\_\_

8) Ice cream to sunflower seeds \_\_\_\_\_\_\_\_\_\_\_

9) candy to total \_\_\_\_\_\_\_\_\_

**Examples**:

1) candy to seaweed \_\_\_\_\_\_\_\_\_\_\_\_\_

2) sunflower seeds to cookies \_\_\_\_\_\_\_\_

3) Takis to ice cream \_\_\_\_\_\_\_\_\_\_\_

4) candy to cookies and fruit \_\_\_\_\_\_\_\_\_

5) cookies to Takis \_\_\_\_\_\_\_\_\_\_

Katie wants to divide her 30 flowers into two groups, so that the ratio is 2 to 3.

**Step 1** - Use a triple number line to show a ratio of 2 to 3.

 There are \_\_\_\_ flowers in one group and \_\_\_\_ in the other.

Divide 28 cans of soda into two groups so the ratio is 3 to 4.

There will be \_\_\_\_\_\_ sodas in the first group and \_\_\_\_\_\_ in the second.