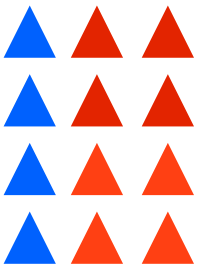
Name _____
Date _____ Period _____

Ratio

A ratio is a comparison between two quantities.

What is the ratio of blue triangles to red triangles?



4 blue triangles 8 red triangles

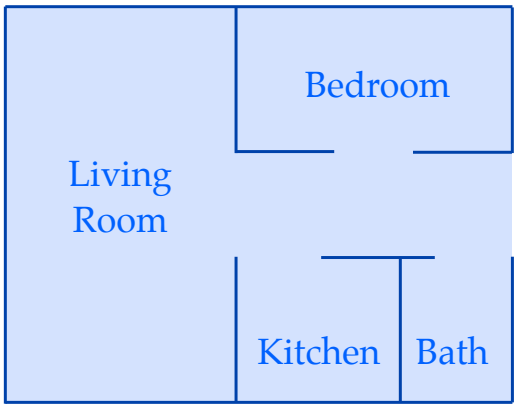
colon

using "to"

fraction

Ratio

A ratio is a comparison between two quantities.



Inches 3 in.

Feet 9 ft.

colon

using "to"

fraction

Scale: 3 in. = 9 ft.

Proportion

A proportion is a statement that two ratios are equal.

$$\frac{a}{b} = \frac{c}{d}$$

ratio = ratio

proportion

Proportion

To solve a proportion cross multiply.

$$\frac{a}{b} = \frac{c}{d}$$

Solve the following proportions

$$\frac{2}{5} = \frac{x-6}{x}$$

Solve the following proportions

$$\frac{4}{x} = \frac{x}{16}$$

Solve the following proportions

$$\frac{x-4}{x-2} = \frac{x-1}{x+7}$$

Given the proportion...

$$\frac{a}{b} = \frac{c}{d}$$

The following are equivalent statements.

1) $ad = bc$ 2) $\frac{b}{a} = \frac{d}{c}$ 3) $\frac{a}{c} = \frac{b}{d}$ 4) $\frac{a+b}{b} = \frac{c+d}{d}$

Given the proportion...

$$\frac{x}{y} = \frac{2}{7}$$

Create four equivalent statements

1)	2)	3)	4)
cross multiply	flip numerators with denominators	switch b and c terms	add denominator value to numerator