

# Ratios

October 3, 2016 11:37 AM

**Ratio**: comparison of 2 or more amounts of the SAME thing

Two ways to write ratios:

## ① Ratio Notation

- use for 2 or more items
- separate amounts with colon :
- order matters

Your class has 27 students

a) Girls to boys?  $13:14$

b) Boys to Number of people with braces?

$14:7 \rightarrow 2:1$

Reduce if you can!

c) Total people to how many hoodies to blonde hair?

$30:15:9 \rightarrow 10:5:3$   
 $\div 3 \quad \div 3 \quad \div 3$

## ② Fraction Notation

- can only compare 2 amounts
- numerator (top) is the first item
- denominator (bottom) is the second item
- reduce if possible

You have a handful of m&M's. 6 red, 3 brown, 8 green, 4 yellow and 3 blue

a) yellow to red:  $\frac{4}{6} = \left(\frac{2}{3}\right)$

b) blue to total:  $\frac{3}{24} = \left(\frac{1}{8}\right)$

c) blue and red to the rest:  $\frac{9}{15} = \left(\frac{3}{5}\right)$   
add  
 $3 + 6 = 9$   
 $\frac{24}{-9}$   
 $\frac{15}{15}$