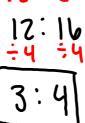
5.1: Ratios

A <u>ratio</u> is a comparison of two numbers by division.

Always write ratios in simplest form!

Example 1: Write each ratio in simplest_form,

c)
$$\frac{20}{2}$$
 = 2



Example 2: Express each ratio as a fraction.

a) 12 boys to 16 girls

b) 24 out of 50 light bulbs

c) 36 DVDs out of 84 DVDs

$$\frac{36.74}{84.74} = \frac{9.73}{21.73} = \boxed{\frac{3}{7}}$$

d) 50 tiles to 25 tiles

Example 3: In Mr. Blackwell's class, 15 out of 24 students play sports. Express this ratio as a fraction in simplest form. Explain its meaning.

When writing a ratio involving measurements, both quantities should have the same unit of measure.

Example 4:

a) What is the ratio of 20 inches to 4 feet?

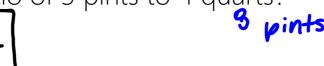
b) What is the ratio of 16 inches to 3 feet?

Ift=17 inch 3 pt=36 inch

Example 5:

1 gt = 2 pts 4 gt = 8 pts

a) What is the ratio of 3 pints to 4 quarts?



b) What is the ratio of 2 pounds to 6 ounces?

Example 6:

14d=3ft 3ft=36 inch

a) What is the ratio of 9 inches to 1 yard?

34 inch

b) What is the ratio of 6 gallons to 3 quarts?

$$\frac{24 \div 3}{3 \div 3} = \boxed{8}$$