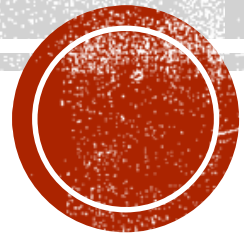
RATIO AND PROPORTION



RATIOS

- A ratio compares 2 things with the **SAME** units

$\frac{\text{5 boys}}{\text{8 boys}} = \frac{5}{8}$ 5 to 8 5:8

- Equivalent fractions – fractions that equal the same number

$\frac{10}{12} = \frac{5}{6}$

PROPORTION

- A proportion compares two ratios using an equal sign.
  - $\frac{1}{2} = \frac{4}{8}$

SOLVING PROPORTIONS

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

Means – extremes $bc = ad$

(sometimes called cross products)

SOLVE:

$$\frac{2}{3} = \frac{x}{18} \qquad \frac{5}{4} = \frac{16}{x}$$