

3.6 Ratios

Comparison of Numbers

$$\frac{\text{wins}}{\text{losses}}$$

$$\frac{\text{boys}}{\text{girls}}$$

$$\frac{\text{students}}{\text{teachers}}$$

Proportion

2 ratios set = to each other

$$\frac{3}{4} = \frac{x}{8}$$

$$\frac{3}{4} = \frac{6}{8}$$

Cross Product.

$$\frac{3}{4} = \frac{x}{8}$$

$$4x = 3(8)$$

$$\frac{4x}{4} = \frac{24}{4}$$

$$x = 6$$

$$\frac{6}{8} = \frac{x}{40}$$

↗ x5
↘ x5

$$x = 30$$

$$\frac{6}{8} = \frac{x}{40}$$

$$\frac{3}{4} = \frac{x}{40}$$

↗ x10
↘ x10

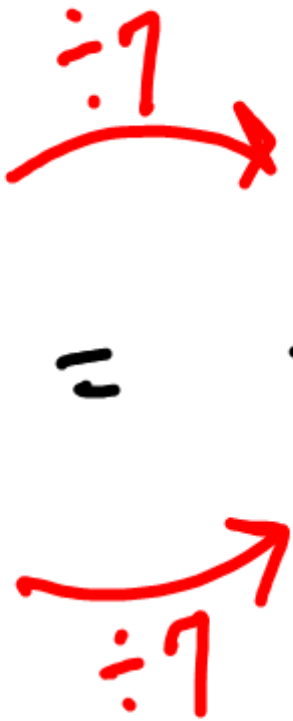
$$x = 30$$

~~$$\frac{3}{4} = \frac{x}{40}$$~~

$$4x = 3(40)$$

$$\frac{4x}{4} = \frac{120}{4}$$

$$x = 30$$

$$\frac{49}{56} = \frac{x}{8}$$


$$x = 7$$

$$\frac{1}{2} \cdot 2 \quad |$$

$$P \quad 166 \\ 6-42E$$