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Proportions

Ratio - compares two numbers

Proportion - compares two ratios

$$\frac{1}{2} = \frac{4}{8}$$

$$1(8) = 2(4)$$

$$8 = 8$$

Cross products
are equal

$$\frac{1}{2} = \frac{2}{5}$$

$$4 \neq 5$$

Not a proportion

$$\frac{3}{4} = \frac{x}{24}$$

$$\frac{4x}{4} = \frac{72}{4}$$

$$x = 18$$

Can use cross
products to solve
for a missing
number

$$\frac{2x}{8} = \frac{5}{10}$$

$$\frac{20x}{20} = \frac{40}{20}$$

$$x = 2$$

