

Ratio - Comparing two numbers by division,  
the numbers count the same concept /  
usually same unit of measure

Example  $\frac{1 \text{ Teacher}}{20 \text{ Students}}$

Rate - Comparing two numbers by division,  
the numbers count different concepts /  
usually different unit of measure

Proportion - two equal ratios or rates

- The cross-products are equal

Example  $\frac{1}{2} = \frac{3}{6}$  cross-product

$$1 \cdot 6 = 2 \cdot 3$$

$$6 = 6$$

- Use the cross-product to solve various rate and ratio problems