

# RATE, RATIO, and PROPORTIONS

## DEFINITION:

A **ratio** is a

Comparison  
of two or more numbers.

## EXAMPLE:

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The ratio of stars to triangles is 2 to 3.

## YOU SHOULD KNOW...

There are 3 ways to write a ratio.

1.) 2:3

2.)  $\frac{2}{3}$

3.) 2 to 3

## DEFINITION:

A **rate** is a ratio

comparing two numbers with different

units.

## EXAMPLE:

A car travels 100 miles in 2 hours.

$$\frac{100 \text{ miles}}{2 \text{ hours}}$$

## YOU SHOULD KNOW...

A unit rate tells the  
rate in lowest terms, or the amount for  
1.

$$\frac{100 \text{ miles}}{2 \text{ hours}} = \frac{50 \text{ miles}}{1 \text{ hour}}$$

## DEFINITION:

A **proportion** is an

equation  
showing two ratios are

equal.

## EXAMPLE:

$$\frac{10}{25} = \frac{40}{100}$$

## YOU SHOULD KNOW...

In a proportion, if the ratios are  
equivalent, then the

cross  
products are equal.

(THINK OF EQUAL FRACTIONS)