Equations for Proportional Relationships

$$y=\frac{y}{x}\*x$$

Equation For Proportional Relationships

**Dependent Variable = Rate \* Independent Variable**

**Independent Variable**

The independent variable is a variable which impacts the equation.

It will be what you are given in a question to solve the equation

x

y

**Dependent Variable**

The dependent variable is the variable that is unknown in a problem and needs to be solved for.

You will use your information from the problem to decide what is given and what will be answered.

Your dependent variable will be what you are trying to solve for when answering these questions

$$\frac{y}{x}$$

**Rate/Constant of Proportionality**

A rate is written as a combination of independent and dependent variables.

There are two ways to write any rate, it depends on what you are solving for.

You will create your rate based upon your variables and question