## **Percent Proportion and Percent Equations**

Most questions will come in the form of a percent equation and they will start off asking

"What percent of What is What"

You will change the format of the question to a percent proportion to look like 2 equal fractions. The fractions will read "is over of equals percent over 100." It will look like this:

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$$

## **Example:** What percent of 20 is 5?

When you use a percent proportion you will cross multiply to find the missing number.

$$20 100 20(x) = (5)100$$

$$20x = 500$$

$$x = 25$$

**Example:** What is 80% of 400?

$$\underline{x} = \underline{80}$$

$$100(x) = (400)80$$

$$100x = 3200$$

$$x = 320$$

1.) 10 is what percent of 40?

Identify the is, of, and percent	Set up the proportion	$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$

2.) What is 35% of 200?

Identify the is, of, and percent	Set up the proportion	$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$

3.) 25% of what number is 15?

Identify the is, of, and percent	Set up the proportion	$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$