

Name \_\_\_\_\_

Period \_\_\_\_\_

## Percent Equations

There are 3 numbers in each percent equation. Your task is to find the missing number in the equation using one of 2 methods shown below.

### What percent?

Example: What percent is 30 of 150?

**Method 1:** substitute values into the equation.

\_\_\_\_\_ % is 30 of 150?

30 = \_\_\_\_\_ % x 150

30 = \_\_\_\_\_ x 150

**Method 2:**  $\frac{is}{of} = \frac{?}{100}$

$$\frac{30}{150} = \frac{?}{100}$$

### What is?

Example: What is 20% of 150?

**Method 1:** substitute values into the equation

\_\_\_\_\_ is 20% of 150?

\_\_\_\_\_ = .20 x 150

**Method 2:**  $\frac{is}{of} = \frac{?}{100}$

$$\frac{?}{150} = \frac{20}{100}$$

## Of what?

Example: 30 is 20% of what number?

**Method 1:** substitute values into  
the equation

30 is 20% of \_\_\_\_\_ number?

$$30 = .20 \times \underline{\hspace{2cm}}$$

**Method 2:**  $\frac{\textit{is}}{\textit{of}} = \frac{?}{100}$

$$\frac{30}{?} = \frac{20}{100}$$