Percent of a Number : When you are finding the percent of a number, you are finding a **PART** of the **WHOLE** number.

Solving % Problems with Proportions

1. Set up proportion

$$\frac{is}{of} = \frac{\%}{100} \quad \text{Or} \quad \frac{Part}{Whole} = \frac{\%}{100}$$

2. Use a variable to represent the unknown value
3. Cross multiply (butterfly wings!)
4. Solve for x
5. Check your answer!

Example: [12 is] 50% of what number?

↓ what we are solving for

$$\frac{is}{Of} = \frac{\%}{100}$$

* Fill in the template using the information given.

Cross Multiply

$$\frac{12}{X} = \frac{50}{100}$$

$$\frac{50x}{50} = \frac{1200}{50}$$

$$\boxed{X = 24}$$