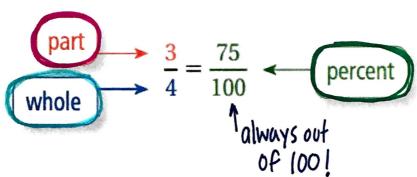
## Name: Ky

## **6.3 Notes: Percent Proportions**

The Percent Proportion

Think of writing a fraction and turning that fraction into a percent....

3 out of 4 is 75%



Example #1: Finding a Percent

$$\frac{part}{whole} = \frac{\%}{100}$$

$$\frac{12}{15} = \frac{1200}{15}$$
Finding a Part

What percent of 15 is 12?

Part

Those Part

The cross multiply or scale up-down to solve

$$\frac{15 \times 1200}{15 \times 15}$$

$$\times = 80\%$$

What number is 36% of 50?

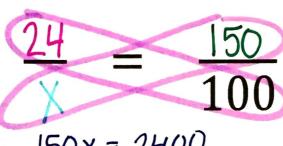
Example #2: Finding a Part

$$\frac{36}{100} = \frac{3600}{100} = \frac{1800}{100}$$

$$\frac{1000}{100} = \frac{1800}{100}$$

$$\frac{100}{100} = \frac{1800}{100}$$

Example #3: Finding a Whole



$$150 \times = 2400$$

Practice:

1. What percent of 5 is 3?

$$\frac{3}{5} = \frac{\chi}{100}$$
 $5x = 300$ 
 $\chi = 60\%$ 

2. What number is 80% of 60?

$$\frac{x}{60} = \frac{80}{100}$$

$$100 x = 4800$$

$$x = 48$$

3. 25 is what percent of 20?

$$\frac{25}{20} = \frac{x}{100}$$

$$20x = 2500$$

$$x = 125\%$$

4. 10% of 40.5 is what number?

$$\begin{array}{c} x & 10 \\ 40.5 & 100 \\ 100x & = 405 \\ x & = 4.05 \end{array}$$

5.  $\frac{1}{2}$  is 25% of what number?

$$\frac{1/2}{2}$$
,  $\frac{25}{100}$   
 $\frac{25}{25}$  x = 50  
 $\frac{25}{25}$  x = 2

6. 0.1% of what number is 4?

$$\frac{4}{x} = \frac{0.1}{100}$$
 $0.1x = 400$ 
 $0.1x = 400$