Name:	Key
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4.3 Proportion and Percent Equations

Objectives:

- 1. Use proportions when solving percent problems
- 2. Write and solve percent equations

A percent is a Mario comparing a number to

$$63\% = \frac{63}{100}$$

Percent is $\frac{n}{100} = \frac{part(5)}{whole(5)}$

We use: \ \(\frac{96}{100} = is \\ \)

Examples: Finding the Percent

1. What percent of 72 is 18?

$$\frac{n}{100} = \frac{part}{whole} \frac{(0.6)}{(0.6)}$$

$$\frac{n}{100} = \frac{18}{72} \quad \longleftarrow$$

2. What percent of 150 is 90?

$$\frac{x}{100} = \frac{90}{150} \left[x = 60\% \right]$$

Examples: Finding the Whole always put % over 100

3. 60% of what is 45?

$$\rightarrow \frac{60}{100} = \frac{45}{x} \text{ is } \leftarrow$$

Examples: Finding the Part (iS)

5. What is 39% of 1500?

$$\frac{39}{100} = \frac{x}{1500} = \frac{1500}{1500} = \frac{$$

6. What is 20% of 650?

$$\frac{20}{100} = \frac{x}{650} \quad [x=130]$$

7. What is 250% of 14?

$$\frac{350}{100} = \frac{1}{14} \left[x = 35 \right]$$

Part (is)

8. You spent 16% of your vacation money on food. If you spent \$48 on food, how much money did you spend on your vacation?

+otal(of)

Question, Highlight, Summarize