

# Percent and Equations

6<sup>th</sup> Grade Mathematics

Mr. Wong

## 6-7 Percent and Equations

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

(Ex. 1) Find 56% of 75.

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

$$\frac{x}{75} = \frac{56}{100}$$

What is the "is" ?

$$75 \cdot 56 = x \cdot 100$$

What is the "of" ?

$$4200 = 100x$$

What is the "%" ?

$$\div \qquad \div$$

Cross Multiply

$$\frac{100}{42} = \frac{100}{x}$$

Solve

(Ex. 2) What percent of 25 is 17?

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

$$\frac{17}{25} = \frac{x}{100}$$

What is the "is" ?

$$25 \cdot x = 17 \cdot 100$$

What is the "of" ?

$$25x = 1700$$

What is the "%" ?

$$\div 25 \quad \div 25$$

Cross Multiply

Solve

$$x = 68\%$$

(Ex. 3) Find 5.5% of 44.

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

$$\frac{x}{44} = \frac{5.5}{100}$$

What is the "is" ?  $44 \cdot 5.5 = x \cdot 100$

What is the "of" ?  $242 = 100x$

What is the "%"?  $\div \quad \div$

Cross Multiply

$$\frac{100}{2.42} = \frac{100}{x}$$

Solve

(Ex. 4) What percent of 45 is 24?

Round to the nearest tenth.

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

$$\frac{24}{45} = \frac{x}{100}$$

What is the "is" ?

$$45 \cdot x = 24 \cdot 100$$

What is the "of" ?

$$45x = 2400$$

What is the "%" ?

$$\div 45 \quad \div 45$$

Cross Multiply

Solve

$$x = 53.3\%$$