

11/8/18

Be able to solve proportion problems using the percent proportion and the percent equation.

Fraction

Proportion

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

part = is  
whole = of

Decimal

Equation

$$\text{part} = \text{percent} \cdot \text{whole}$$

decimal form

Examples

What number is 84% of 75?

$$\text{part} = \text{percent} \cdot \text{whole}$$

$$x = .84(75)$$

$$x = 63$$

Fifteen is 125% of what number?

$$15 = 1.25x$$

$$12 = x$$

What percent of 120 is 42?

$$42 = x \cdot 120$$

$$42 = 120x$$

$$0.35 = x$$

$$35\%$$