

The Basic Percentage Calculation

As a proportion...

$$\frac{\text{Percent}}{100} = \frac{\text{Part}}{\text{whole}}$$

As an equation...

$$\text{Percent} = \frac{\text{Part}}{\text{whole}} \times 100$$

Variations

Percent change

$$\frac{\text{Percent}}{100} = \frac{\text{change}}{\text{original}}$$

$$\text{Percent} = \frac{\text{change}}{\text{original}} \times 100$$

$$\frac{\text{Percent}}{100} = \frac{\text{newValue} - \text{oldValue}}{\text{oldValue}}$$

$$\text{Percent} = \frac{\text{newValue} - \text{oldValue}}{\text{oldValue}} \times 100$$

Profit Margin

$$\frac{\text{Percent}}{100} = \frac{\text{Profit}}{\text{Sales}}$$

$$\text{Percent} = \frac{\text{Profit}}{\text{Sales}} \times 100$$

$$\frac{\text{Percent}}{100} = \frac{\text{Sales} - \text{Expenses}}{\text{Sales}}$$

$$\text{Percent} = \frac{\text{Sales} - \text{Expenses}}{\text{Sales}} \times 100$$

Discount

$$\frac{\text{Discount}\%}{100} = \frac{\text{Discount amount}}{\text{OldPrice}}$$

$$\text{Discount}\% = \frac{\text{Discount amount}}{\text{OldPrice}} \times 100$$

$$\frac{\text{Discount}\%}{100} = \frac{\text{OldPrice} - \text{NewPrice}}{\text{OldPrice}}$$

$$\text{Discount}\% = \frac{\text{OldPrice} - \text{NewPrice}}{\text{OldPrice}} \times 100$$

