

3-10 Using Percent

A ratio of a number to 100 is a **percent**.

There are 3 ways to write a percent:

5%

0.05

$$\frac{5}{100}$$

Going from a percent to a decimal:

- Move the decimal place to the left twice.
- Remove the %

Write the following as decimals:

1.) 41% $41 = 0.41$

2.) 2% $2 = 0.02$

3.) 150% $150 = 1.5 \text{ or } 1.50$

4.) 0.5% $0.5 = 0.005$

Decimal or Fraction to Percent:

-Change fraction to decimal.

- Move the decimal to the right twice.

(Multiply by 100.)

Express the following as a percent:

1.) $0.62 = 62\%$

2.) $\frac{1}{4} = 0.25 = 25\%$

3.) $\frac{6}{5} = 1.20 = 120\%$

4.) $1.00 = 100\%$

The word "of" means multiply!

1.) What is 20% of 90?

$$x = 0.20(90)$$

$$x = 18$$

2.) 12% of 40 is what number?

$$0.12(40) = x$$

$$4.8 = x$$

* 3.) What percent of 60 equals 12?

$$P \times \frac{60}{60} = \frac{12}{60} \quad P = 0.20 \quad P = 20\%$$

4.) 35% of what number equals 1.4?

$$\frac{0.35x}{0.35} = \frac{1.4}{0.35} \quad x = 4$$