

What is 15% of 80?

$$\frac{15}{100} = \frac{x}{80}$$

$$x = 12$$

Using a Proportion:

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

$$\frac{\%}{100} = \frac{\text{IS}}{\text{OF}}$$

Using a Percent Equation:

1. IS means =
2. Change % to a decimal
3. OF means multiply

What is 15% of 80?

$$x = (.15) \cdot 80$$

$$x = 12$$

72 is what percent of 95?

$$\frac{x}{100} = \frac{72}{95}$$

$$75.8\%$$

$$72 = x \cdot 95$$

$$\frac{72}{95} = x$$

$$75.8\%$$

120 is 30% of what?

$$\frac{30}{100} = \frac{120}{x}$$

$$x = 400$$

$$\frac{120}{.30} = \frac{(30)x}{.30}$$

$$x = 400$$

The number of students increased 2.5% from last year.
Last year there was 8,400 students.

Find the number of students this year.

2.5% increase

$$\frac{2.5}{100} = \frac{X}{8400}$$

$$X = 210$$

$$8400 + 210 = \boxed{8610}$$

or

$$100\% + 2.5\% = 102.5\%$$

$$X = (1.025)(8400)$$

$$= \boxed{8610}$$

A store had a sale on refrigerators. They were marked 15% off. The refrigerator you want was priced at \$740.
Find the sale price.

15% off

$$\frac{15}{100} = \frac{X}{740}$$

$$X = 111$$

$$740 - 111 = \boxed{629}$$

or

$$100\% - 15\% = 85\%$$

$$(.85)(740)$$

$$= \boxed{629}$$