

Lesson 2.4: Percent Change

The rules
for percent
change.

Find the percent change from 50 to 38.

1.) Write out the formula:

$$\% \text{ change} = \frac{\text{difference}}{\text{original amount}}$$

2.) Find the absolute value of the difference between the starting number and ending number.

$$\% \text{ change} = \frac{50 - 38}{50}$$

3.) Divide the starting number

$$\frac{12}{50} = 0.24$$

4.) Convert decimal to a percent.

$$0.24 = 24\%$$

I do...

A.) Find the percent change in the cost of gasoline from 1970 to 2010. Gas was \$1.30 in 1970 and \$2.95 in 2010. Round to the nearest whole percent if necessary.

$$\% \text{ change} = \frac{\$2.95 - \$1.30}{\$1.30}$$

$$\% \text{ change} = \frac{\$1.65}{\$1.30}$$

$$\% \text{ change} = 1.27$$

$$\% \text{ change} = 127\%$$

The cost of gasoline increased by about 127% from 1970 to 2010.

B.) Jordan bought a DVD recorder for \$280. Now, it is on sale for \$220. Find the percent change in the price. Round to the nearest whole percent if necessary.

$$\% \text{ change} = \frac{\$280 - \$220}{\$280}$$

$$\% \text{ change} = \frac{\$60}{\$280}$$

$$\% \text{ change} = 0.21$$

$$\% \text{ change} = 21\%$$

The price of the DVD decreased by about 21%