

2.10 - PERCENT OF CHANGE/PERCENT ERROR:

When you pay for something, you pay 100% of the price. When the cost of an item changes from its original amount then the change is a percent increase or percent decrease.

An item increases from \$2 to \$3? What is the percent change?

Use:
$$\frac{\text{new amount} - \text{old amount}}{\text{old amount}}$$

same
thing }

$$\frac{\text{to} - \text{from}}{\text{from}}$$

$$\frac{3 - 2}{2} = \frac{1}{2} = 50\% \text{ increase}$$

An item goes from \$3 to \$2?

$$\frac{2 - 3}{3} = \frac{1}{3} = 33\% \text{ decrease}$$

***** Note, although each amount changed by \$1, the % change differs due to starting with different original amounts.**

original : 5

new : 7

What is percent change?

$$\frac{7-5}{5} = \frac{2}{5} = .4 = 40\%$$

$.4$

Convert to a %.

Move decimal point
2 places to right

$$.4 = .40 = \textcircled{40\%}$$

original : 7

new : 5

What is percent change?

$$\frac{5-7}{7} = \frac{-2}{7} = .28 = \textcircled{28\%}$$