

## Percent of Change

## Examples:

A sweater originally sold for \$30. Now, it's on sale for \$23. Find the percent of change.

$$\frac{|30-23|}{30} = \frac{7}{30} \times 100 = 23\%$$

This is a percent Decrease

A car is bought for \$13,900 and is then resold for \$15,000. Find the percent of change.

$$\frac{|13,900-15,000|}{13,900} = \frac{1,100}{13,900} \times 100 = 8\%$$

This is a percent Increase

Formula:

$$\frac{|\text{Original} - \text{new}|}{\text{Original}} \times 100$$

Note:

\* Smaller  $\rightarrow$  Larger

Percent Increase

\* Larger  $\rightarrow$  Smaller

Percent Decrease

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## Percent of Change/Error Practice:

Percent of Change:

① 500 yards to 350 yards

$$\frac{500-350}{500} = \frac{150}{500} \times 100 = 30\% \text{ decrease}$$

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② \$80 to \$180

$$\frac{|180 - 80|}{80} = \frac{100}{80} \times 100 = 125\% \text{ increase}$$

③ Last year there were 525 Students at SAS. This year there are 572. Find the Percent of Change.

$$\frac{|525 - 572|}{525} = \frac{47}{525} \times 100$$

9% increase

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