## 4.4-> PERCENT OF CHANGE

Percent of Change: The ratio  $\frac{\text{amount of Change}}{\text{original}}$  expressed as a percent; Can be expressed as an increase or decrease.  $Percent of Change = \frac{Change(-)}{Original} \cdot 100$ 

Percent of Increase: When a Value increases from its original amount.

Percent of Decrease: When a value decreases from its original amount.

## Examples-Finding the Percent of Change:

1. The price of a skirt <u>decreased</u> from \$32.95 to \$28.95. Find the percent of decrease.

$$\frac{32.95 - 28.95}{32.95} \cdot 100 = \frac{4}{32.95} \cdot 100 = .012 \times 100 = 12\%$$

2. Find the percent of change if the price of a CD increases from \$12.99 to \$13.99.

\$12.99 to \$13.99.  

$$13.99 - 12.99 \times 100 = 7.7 = 8\%$$

3. Find the percent of change if the CD is on sale and its price decreases from \$13.99 to \$12.99. Round to the nearest %.

- 4. Find each Percent of Change. Describe each as a % of Increase or % of Decrease. Round to the nearest %.
  - a. \$4.50 to \$5.00

b. 8 lbs. to 5 lbs.

c. 56 inches to 65 inches

56 inches to 65 inches
$$65 - 56 \times 100 = 9 \times 100 = 16\%$$

d. 18 oz. to 12 oz.