

Formulas *(to use when working with percents)*

(Remember.....to always change a percent to a decimal.)

$$\star \text{ *Percent of change* } = \frac{\text{difference}}{\text{original amount}} \times 100$$

$$\star \text{ *Sale Price* } = (100 - \%) \times \text{original price}$$

$$\star \text{ *Amount of Discount* } = \% \times \text{original price}$$

$$\star \text{ *Amount of Tax* } = \text{rate} \times \text{sale price}$$

$$\star \text{ *Total Cost* } = \text{sale price} + \text{tax}$$

$$\star \text{ *Commission* } = \text{rate} \times \text{sales}$$

$$\star \text{ *Rate of Commission* } = \frac{\text{amount of commission}}{\text{sales}}$$

★ ***Simple Interest*** = $\text{principle} \times \text{rate} \times \text{time (in years)}$

★ ***Balance*** = $\text{amount of interest} + \text{principle}$

★ ***Mark-up and Discount:*** $\text{NA} = (1 \pm \%) \times \text{OA}$