6.5 Percent of Change p.242

- A percent of change is the percent that a quantity changes from the original amount
- It is either an increase or decrease (never go into negative numbers)

Steps: to find the ratio (fraction) to turn into a percent

- ✓ Subtract the two quantities (larger amount on top); This number is your numerator $\binom{n}{1}$
- ✓ The denominator is the original quantity (what it was first)
- ✓ Turn the ratio into a percent (divide, multiply by 100, and) add % sign); may need to round to nearest tenth of a percent
- ✓ Write if it was an increase or decrease

Examples:

1. from 25 to 30
$$\frac{5}{35} = \frac{20\%}{35}$$
 increase

2. from 30 to 25
$$\frac{5}{30-25}$$
 = [16.7% decrease]

4. from
$$\frac{4}{5}$$
 to $\frac{3}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1$

5. 72 paper clips to 63 paper clips
$$\frac{9}{72} =$$

Find the new amount:

Multiply; then Add or Subtract

Le turn % into a decimal first

decrease means -

Examples:

2. 25 penalties decreased by 32%

3. 12 dogs decreased by 25%

4. 140 ounces increased by 45%

$$140(0.45) = 63$$

 $140+63= 203 ounces$

5. 50 cupcakes decreased by 50%

$$50(0.5) = 25$$

 $50-25 = 25$ cupcakes