

## 5-7 Percent of Change

Percent of change - compares the ratio of the change in an amount to the original

$$\frac{\text{Change}}{\text{original}} \quad \begin{array}{l} \text{orig } 12 \\ \text{new } 9 \end{array} \quad \frac{12-9}{12} = \frac{3}{12} = \frac{1}{4} \quad (25\%)$$

new greater than original = increase +  
original is greater than new = decrease -

a.) orig. 20  
new 23

$$\frac{23-20}{20} = \frac{3}{20} = \frac{15}{100}$$

+15%

b.) orig: 50  
new: 67

$$\frac{67-50}{50} = \frac{17}{50} = \frac{34}{100} \quad (+34\%)$$

c.) orig 12  
new 20

$$\frac{20-12}{12} = \frac{8}{12} = 66.7\%$$

$$32.) \quad 81 = 0.65n$$