

Section 10-3:
Percent of Change

Objectives:

- **Given an original amount and a final amount, calculate the percent of change.**
- **Determine whether the percent of change is an increase or a decrease.**

$$\text{Percent of Change} = \frac{\text{Big \#} - \text{Small \#}}{\text{Original \#}} \bullet 100$$

Ex 1:

\$100 to \$65

$$\frac{100 - 65}{100} \cdot 100 = \frac{35}{100} \cdot 100 = 35\% \text{ Decrease}$$

Ex 2:

Original: 60

New: 33

$$\frac{60-33}{60} \cdot 100 = \frac{27}{60} \cdot 100 = 0.45 \cdot 100$$

= 45%
Decrease

Ex 3:

If I started with \$20, and now I have \$60, what is the percent of change?

$$\frac{60-20}{20} \cdot 100 = \frac{40}{20} \cdot 100 = 2 \cdot 100$$

200% Increase