6.4 Percent of Change

A percent of change is a ratio that compares the change in quantity to the original amount.

percent of change = original amount

If the percent is positive, it is a percent of increase. If the percent is negative, it is a percent of decrease.

<u>Example:</u> Find the percent of change. Round to the nearest tenth, if necessary. State whether the percent of change is an increase or decrease.

a.) from \$40 to \$32 decrease 40 - 32 = 8 $\frac{8}{40} = \frac{1}{5} = 0.20$; $5 \sqrt{1.00} = \frac{2}{50} = \frac{1}{50} = 0.125$ $5 \sqrt{1.00} = \frac{2}{50} = \frac{1}{50} = 0.125$ $\frac{7}{56} = \frac{1}{8} = 0.125$ $\frac{7}{56} = \frac{1}{8} = 0.125$ $\frac{1}{2.57} = \frac{1}{20} = 0.125$ $\frac{1}{2.57} = \frac{1}{2.57} = \frac{1}{20} = 0.125$ $\frac{1}{2} = \frac{1}{2} = 0.125$ $\frac{1}{2} = 0.125$ $\frac{1}{2$ Example: Find the percent of change from 60°F to 84°F. State whether the percent of change is an increase or decrease.



<u>Example:</u> Ty had 52 comic books. Now he has 61 books. Find the percent of change. Round to the nearest tenth. State whether the percent of change is an increase or decrease.

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Example: Find the percent of change from 24 points to 18 points. State whether the percent of change is an increase of decrease



Example: On Saturday, Smoothie Central made \$1300 in sales. On Sunday, they made \$900 in sales. What is the percent of change from Saturday to Sunday? Is it an increase or decrease?

