15.5

Percents of Increase and Decrease

Today's Learning Goals:

- Find percents of increase.
- Find percents of decrease.

Review

Solving the following using a proportion.

1) What percent of 40 is 4?

Review

Solving the following using a proportion.

2) What number is 22% of 300

Review

Solving the following using a proportion.

3) 84 is 70% of what number?

PERCENT OF CHANGE FORMULA

$$\frac{\text{Amount of change}}{\text{Original Amount}} = \frac{\%}{100}$$

1) Before: 30 points scored

After: 45 points scored

a) Is this a increase or decrease?

b) What is the amount of change?

c) What is the percent of change?

2) Before: 96 redvines

After: 24 redvines

a) Is this a increase or decrease?

b) What is the amount of change?

c) What is the percent of change?

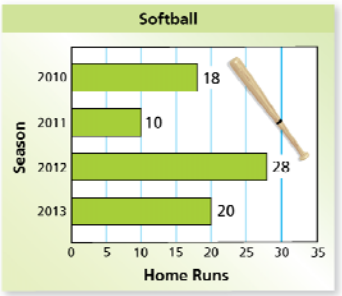
Practice #3

The table shows the numbers of hours you spent online last weekend. What is the percent of change in your online time from Saturday to Sunday?

Day	Hours Online
Saturday	2
Sunday	4.5

Practice #4

The bar graph shows a softball player's home run totals. What was the percent of change from 2012 to 2013?



PERCENT OF ERROR FORMULA

$$\frac{\text{Amount of Error}}{\text{Original Amount}} = \frac{\%}{100}$$

Practice #5

You estimate that the length of your classroom is 16 feet. The actual length is 21 feet. Find the percent error.