# Percent of <br> Change and <br> Percent Error 

Percent of Change - The percent that a number increases or decreases
(Can be a \% Increase or a \% Decrease)

To Find Percent of Change...
Bigger Number - Smaller Number $\times 100$ Original Number

Find the Percent of Change:

In a given year, Apex had a total of 7.5 inches of rain from January - March and 22.5 inches from April - June. Find the percent of change in the rainfall.

In 20 years, the average cost of a gallon of gasoline increased from $\$ 0.88$ to $\$ 2.06$. Find the percent of change.

Percent Error - The percent that an estimate is off from the actual number.

## To Find Percent Error:

Bigger Number - Smaller Number $\times 100$ Actual Number

## Find the percent error:

Estimate: 3400 Actual: 3519

A student calculates the density of a rock to be $3.2 \mathrm{~g} / \mathrm{ml}$ and the actual value is $4.7 \mathrm{~g} / \mathrm{ml}$. What is the student's percent error?

A student made a mistake when measuring the volume of a graduated cylinder. He found the volume to be 65 milliliters, however the real value 50 milliliters. What is the percent error?

