Physicists have determined that the only thing that affects the swing of a pendulum is the length of the cord according to the following equation:

T =
$$2\pi \sqrt{I/g}$$

where:

T=period of oscillation l=length of pendulum g=acceleration due to gravity on Earth

$$g=9.8 \text{ m/s}^2$$

Using the data collected for length from the class groups, determine the % Difference.

Percent deviation is used to determine how much different your values are from an excepted value

% Dev.=
$$\left| \frac{\text{Expt'l - Theoretical}}{\text{Theoretical}} \right| X 100\%$$