## **Data Analysis Handout**

## **Percent Error**

A percent error is used to compare a theoretical value to an experimental value.

## % error = <u>|Theoretical value –Experimental value</u> \* 100% Theoretical value

\*\*Unless instructed otherwise, the percent error value has to be equal or less than 10 %

## **Percent Difference**

A percent difference is used when two experimental values are compared and a theoretical value is not available.

% difference = 
$$\frac{|Exp.Value(1) - Exp.Value(2)|}{\frac{Exp.Value(1) + Exp.value(2)}{2}} * 100\%$$

\*\*Unless instructed otherwise, the percent difference value has to be equal or less than 10 %