

Uncertainty in Measurements

- Accuracy Measurements that are close to the correct value.
- Precision Measurements that are close to each other.

Significant figures

• Rules of the Zero:

1. Zeros between non-zeros → significant
2. Zeros before the first non-zero → not significant
3. Zeros at the end of a decimal number → significant

• Multiplication and division:

→ Answer = lowest significant figure.

• Addition and subtraction:

→ Answer = lowest number of decimal places.

Dimensional Analysis and Conversion factors

Desired unit = given unit $\times$ Conversion factor = $\frac{\text{desired unit}}{\text{given unit}}$

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