

3.1

MEASUREMENTS AND THEIR UNCERTAINTY

Section Review

Objectives

- Convert measurements to scientific notation
- Distinguish among the accuracy, precision, and error of a measurement
- Identify the number of significant figures in a measurement and in the result of a calculation

Vocabulary

- | | | |
|-----------------------|----------------------|-----------------------|
| • measurement | • precision | • error |
| • scientific notation | • accepted value | • percent error |
| • accuracy | • experimental value | • significant figures |

Key Equations

- Error = experimental value - accepted value
- Percent error = $\frac{\text{error}}{\text{accepted value}} \times 100\%$

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

The 1 of a measurement describes how close the measurement comes to the true value. The 2 of a measurement depends on its reproducibility. An 3 is a value measured in the lab. 4 is calculated by subtracting the 5 from an experimental value. Percent error is calculated by dividing the 6 of the error by the accepted value and then multiplying by 7.

Large and small numbers are more easily handled when expressed in 8. Significant figures in a measurement include all of the digits that are 9 plus a last digit that is 10.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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