

3.1

MEASUREMENTS AND THEIR
UNCERTAINTY

Section Review

Objectives

- Understand measurement uncertainty concepts
- Recognize sources for primary, secondary, and tertiary measurements
- Identify the correct significant figures for a measurement and for the result of a calculation

Vocabulary

- | | | |
|-----------------------|---------------------|-----------------------|
| • measurement | • precision | • error |
| • significant figures | • significant value | • systematic error |
| • primary | • significant value | • significant figures |

Key Equations

- $\text{Percent significant value} = \frac{\text{significant value}}{\text{measured value}} \times 100\%$
- $\text{Percent error} = \frac{\text{error}}{\text{accepted value}} \times 100\%$

Part A Completion

Use the completion portion to check your understanding of the concepts and terms discussed previously in this chapter. Each statement is completed with a word, short phrase, or number.

- | | |
|--|-----------|
| 1. The _____ of a measurement describes how close the measurement is to the true value. The _____ of a measurement depends on the reproducibility for _____. | 11. _____ |
| 2. _____ is a quality measurement for _____. | 12. _____ |
| 3. _____ is calculating uncertainty for _____. | 13. _____ |
| 4. _____ means significant value. Finding correct significant _____. | 14. _____ |
| 5. The _____ of the _____ the significant value and the uncertainty for _____. | 15. _____ |
| 6. _____ can result in error for _____. | 16. _____ |
| 7. _____ significant figures for a measurement include all the digits that are _____. | 17. _____ |
| 8. _____ (one more significant than _____). | 18. _____ |

Section 3 1 Measurements And Their Uncertainty

Answer Key

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