

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

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

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 often the measurement is made. The _____ of a measurement depends on reproducibility. For _____, it is the measurement for _____, is calculated by averaging the _____ measurement values. Finding errors involves _____ the deviation _____ of the data. The percent value and the resulting for _____. | 11. _____ |
| 2. _____ and _____ are two types of error values. | 12. _____ |
| 3. _____, _____, _____, and _____ are _____, _____, _____, and _____. | 13. _____ |
| 4. _____, _____, _____, and _____ are _____, _____, _____, and _____. | 14. _____ |
| 5. _____, _____, _____, and _____ are _____, _____, _____, and _____. | 15. _____ |
| 6. _____, _____, _____, and _____ are _____, _____, _____, and _____. | 16. _____ |
| 7. _____, _____, _____, and _____ are _____, _____, _____, and _____. | 17. _____ |
| 8. _____, _____, _____, and _____ are _____, _____, _____, and _____. | 18. _____ |
| 9. _____, _____, _____, and _____ are _____, _____, _____, and _____. | 19. _____ |
| 10. _____, _____, _____, and _____ are _____, _____, _____, and _____. | 20. _____ |

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element with the highest electron affinity is fluorine

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