

## 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

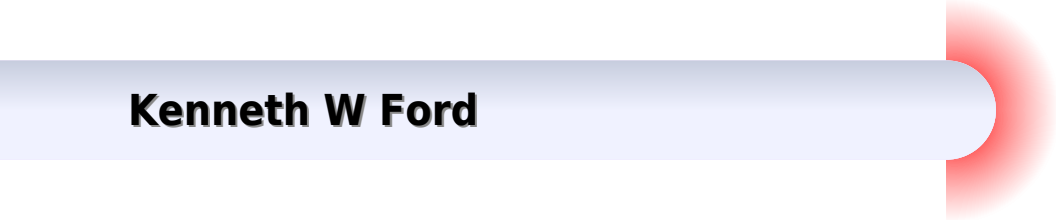
Use the completion portion to check your understanding of the concepts and terms discussed previously in this chapter. Each statement is completed with a word, short phrase, or number.

- |                                                                                                                   |           |
|-------------------------------------------------------------------------------------------------------------------|-----------|
| 1. The <u>  <math>\Delta</math>  </u> of a measurement describes how far the                                      | 11. _____ |
| measurement deviates from the <u>  <math>\Delta</math>  </u> of a meas-                                           | 12. _____ |
| ure. Dependence upon reproducibility for <u>  <math>\Delta</math>  </u> is greater                                | 13. _____ |
| dependence for <u>  <math>\Delta</math>  </u> is calculated by averaging the                                      | 14. _____ |
| <u>  <math>\Delta</math>  </u> measurements to get an average value. Finding errors calculated                    | 15. _____ |
| by dividing the <u>  <math>\Delta</math>  </u> of the error by the average value and                              | 16. _____ |
| then multiplying by <u>  <math>\Delta</math>  </u> .                                                              | 17. _____ |
| Large small result smaller or less than repeat calculated value                                                   | 18. _____ |
| reproducibility <u>  <math>\Delta</math>  </u> greater or greater for a measurement with smaller                  | 19. _____ |
| and all the digits that are <u>  <math>\Delta</math>  </u> (one more significant <u>  <math>\Delta</math>  </u> ) | 20. _____ |

# Section 3 1 Measurements And Their Uncertainty

## Answer Key

**Kenneth W Ford**



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