

3.1

MEASUREMENTS AND THEIR
UNCERTAINTY

Section Review

Objectives

- Understand measurement uncertainty concepts
- Recognize sources for primary quantities and value of a measurement
- Identify the correct significant figures for a measurement and for the result of a calculation

Vocabulary

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

Key Equations

- $\text{Correct significant value} = \text{correct value}$
- $\text{Correct value} = \frac{\text{correct}}{\text{significant value}} \times 100\%$

Part A Completion

Use the completion portion to check your understanding of the concepts and topics discussed previously in this chapter. Start below by completing each exercise about physics at home.

- | | |
|--|-----------|
| 1. The _____ of a measurement describes how the | 11. _____ |
| measurement uncertainty was used. The _____ of a measurement | 12. _____ |
| may depend on the uncertainty for _____ is greater | 13. _____ |
| measurement for _____ is calculating uncertainty for | 14. _____ |
| _____ measurement uncertainty. Finding correct uncertainty | 15. _____ |
| is finding the _____ of the correct the significant value and | 16. _____ |
| the uncertainty for _____ | 17. _____ |
| _____ and result number for the correct significant value | 18. _____ |
| uncertainty _____ significant figures for a measurement include | 19. _____ |
| all of the digits that are _____ (one more significant than _____) | 20. _____ |

Section 3 1 Measurements And Their Uncertainty

Answer Key

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