

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 $\dots R \dots$ of a measurement describes how often the | 11. _____ |
| measurement is made. The $\dots R \dots$ of a measurement | 12. _____ |
| may depend on the independence of the $\dots R \dots$ in a series | 13. _____ |
| measurements. The $\dots R \dots$ is calculated by averaging the | 14. _____ |
| $\dots R \dots$ measurements. The value of the average is calculated | 15. _____ |
| by dividing the $\dots R \dots$ of the series by the average value and | 16. _____ |
| then multiplying by $\dots R \dots$ | 17. _____ |
| 18. Each unit must include a unit factor. The unit factor | 18. _____ |
| is the $\dots R \dots$ of the unit factor. The unit factor is the | 19. _____ |
| unit of the quantity that is $\dots R \dots$ (unit factor is the $\dots R \dots$) | 20. _____ |

Section 3 1 Measurements And Their Uncertainty

Answer Key

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Manogaran, Abdualлах Gamal, Florentin
Smarandache**

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