

3.1**MEASUREMENTS AND THEIR
UNCERTAINTY****Section Review****Objectives**

- Convert measurements to scientific notation
- Distinguish among the accuracy, precision, and error of a measurement
- Identify the number of significant figures in a measurement and in the result of a calculation

Vocabulary

- | | | |
|-----------------------|----------------------|-----------------------|
| • measurement | • precision | • error |
| • scientific notation | • accepted value | • percent error |
| • accuracy | • experimental value | • significant figures |

Key Equations

- Error = experimental value – accepted value
- Percent error = $\frac{|\text{error}|}{\text{accepted value}} \times 100\%$

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

- The 1 of a measurement describes how close the measurement comes to the true value. The 2 of a measurement depends on its reproducibility. An 3 is a value measured in the lab. 4 is calculated by subtracting the 5 from an experimental value. Percent error is calculated by dividing the 6 of the error by the accepted value and then multiplying by 7.
- Large and small numbers are more easily handled when expressed in 8. Significant figures in a measurement include all of the digits that are 9 plus a last digit that is 10.
- | |
|-----------|
| 1. _____ |
| 2. _____ |
| 3. _____ |
| 4. _____ |
| 5. _____ |
| 6. _____ |
| 7. _____ |
| 8. _____ |
| 9. _____ |
| 10. _____ |

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David Baud



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The Pearson Guide to Objective Physics for the IIT-JEE 2012: (All India Engineering Entrance Examination), *The Pearson Guide To Objective Physics For The Iit-Jee 2011* Srivastava M. K., 2011-09

Analysis of Pesticides in Food and Environmental Samples, Second Edition Jose L. Tadeo, 2019-03-04 This book provides a critical overview of analytical methods used for the determination of pesticide residues and other contaminants in food and environmental samples by modern instrumental analysis It contains up to date material including recent trends in sample preparation general methods used for pesticide analysis and quality assurance aspects and chromatographic and immunoassay methods The rest of the book describes particular analytical methods used for the determination of pesticides in food and soil water and air In addition the levels of these chemicals found in food their regulatory aspects and the monitoring of pesticides in the environment are described

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