

3 Scientific Measurement



QUANTIFYING MATTER



For students using the Foundation edition, assign problems 2-4, 7, 8, 10-16, 18-24.

3.1 Using and Expressing Measurements

Essential Understanding

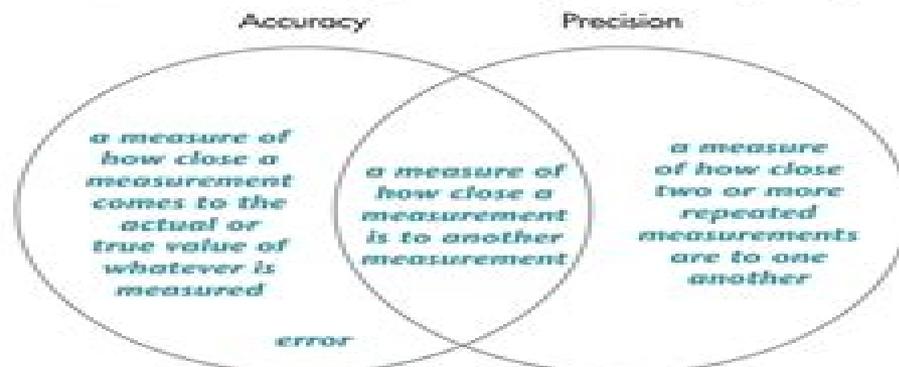
In science, measurements must be accurate, precise, and written to the correct number of significant figures.



Reading Strategy

Venn Diagram A Venn diagram is a useful tool in visually organizing related information. A Venn diagram shows which characteristics the concepts share and which characteristics are unique to each concept.

As you read Lesson 3.1, use the Venn diagram to compare accuracy and precision.



EXTENSION Add the term *error* in the correct location in your Venn diagram. Then explain why you placed this term where you did.

Error is the difference between the measured value and the accepted value.

Lesson Summary

Scientific Notation Scientific notation is a kind of shorthand to write very large or very small numbers.

► Scientific notation always takes the form $(\text{a number } \geq 1 \text{ and } < 10) \times 10^n$.

Chapter 3 Scientific Measurement Practice Problems Answers

Sebastian Brünink



Chapter 3 Scientific Measurement Practice Problems Answers:

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pace. 10. All vehicles in a roundabout are required to yield to pedestrians in a crosswalk. Driver Guide - Chapter 10 - Missouri Department of Revenue CHAPTER 10 — BE IN SHAPE TO DRIVE ... These tests will help the officer decide if you should be arrested and have a chemical test of your breath, blood, or urine. PPT - Chapter 10 PowerPoint Presentation, free download Jul 29, 2014 — Chapter 10 . Intersections Railroad Crossings Roundabouts Complex Intersections Interchanges Responsible Driving - Notes and Study Guide.