Study Guide

What's the chapter about?

Chapter 1 is about the **basic elements of geometry**. In Chapter 1, you'll learn

- how to measure segments and angles.
- how to divide a segment or angle into two equal parts.
- relationships among special pairs of angles.

KEY VOCABULARY

▶ **New**

- conjecture, p. 4
- point, line, plane, p. 10
- segment, ray, p. 11
- postulate, p. 17
- length of a segment, p. 17

- congruent segments, p. 19
- congruent angles, p. 26
- measure of an angle, p. 27
- acute angle, p. 28
- right angle, p. 28
- obtuse angle, p. 28

- straight angle, p. 28
- segment bisector, p. 34
- angle bisector, p. 36
- vertical angles, p. 44
- complementary angles, p. 46
- supplementary angles, p. 46

Are you ready for the chapter?

SKILL REVIEW Do these exercises to review key skills that you'll apply in this chapter. See the given **reference page** if there is something you don't understand.

Subtract the integers. **(Skills Review, p. 785)**

1. $17 - 9$
2. $9 - 17$
3. $5 - (-3)$
4. $3 - (-5)$
5. $-7 - 2$
6. $-7 - (-2)$
7. $-6 - (-5)$
8. $-5 - (-6)$

Evaluate the sum. **(Skills Review, p. 786)**

9. $2^2 + 4^2$
10. $5^2 + (-2)^2$
11. $(-1)^2 + 1^2$
12. $(-5)^2 + 0^2$

Evaluate the radical expression. Round your answer to two decimal places.
(Skills Review, p. 799)

13. $\sqrt{36 + 4}$
14. $\sqrt{1 + 49}$
15. $\sqrt{225 + 100}$
16. $\sqrt{9 + 9}$

STUDENT HELP

▶ **Study Tip**
"Student Help" boxes throughout the chapter give you study tips and tell you where to look for extra help in this book and on the Internet.

Here's a study strategy!

Learning Vocabulary

Important words in this book are in bold type and are highlighted in yellow.

- Keep a section in your notebook for writing down definitions of new words.
- Draw and label sketches near your definitions, if this helps you.
- Use your vocabulary pages to review for quizzes and tests.