## **STUDENT HELP** YOUR BUILT-IN LEARNING SUPPORT

**Vour textbook contains** many special elements to help you learn. It provides several study helps that may be new to you. For example, every chapter begins with a Study Guide.

СНАР	Study Guide
<b>Chapter Preview</b> The Study <b>PREV</b> Guide starts with a short description of what you will be learning.	What's the chapter about?         Chapter 3 is about lines and angles. In Chapter 3, you'll learn         • properties of parallel and perpendicular lines.         • six ways to prove that lines are parallel.         • how to write an equation of a line with given characteristics.
Key Vocabulary This list	KEY VOCABULARY
highlights important new terms that will be introduced in the chapter as well as reviewing terms that you already know.	<ul> <li>Review</li> <li>Inear pair, p. 44</li> <li>vertical angles, p. 44</li> <li>perpendicular lines, p. 129</li> <li>pra1lel planes, p. 129</li> <li>parallel planes, p. 129</li> <li>parallel planes, p. 129</li> <li>parallel planes, p. 131</li> <li>flow proof, p. 136</li> <li>flow proof, p. 136</li> </ul>
Skill Review These exercises review key skills that you'll apply in the chapter. They will help you identify any topics that you need to review.	<b>EXAMPLE</b> <b>Are you ready for the chapter?</b> <b>SKILL REVIEW</b> 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. <b>USING ALGEBRA Solve each equation.</b> (Skills Review, p. 789 and 790) 1. $47 + x = 180$ 2. $135 = 3x - 6$ 3. $m = \frac{5 - 7}{2 - (-6)}$ 4. $\frac{1}{2} = -5(\frac{7}{2}) + b$ 5. $5x + 9 = 6x - 11$ 6. $2(x - 1) + 15 = 90$ Use the diagram. Write the reason that supports the statement. (Review pp. 44-46) 7. $m \angle 1 = 90^{\circ}$ 8. $\angle 2 \cong \angle 4$ 9. $\angle 2$ and $\angle 3$ are supplementary. Write the reason that supports the statement. (Review pp. 96-98) 10. If $m \angle A = 30^{\circ}$ and $m \angle B = 30^{\circ}$ , then $\angle A \cong \angle B$ .
Study Strategy The study strategies suggest ideas to help you better understand the math you are learning as well as help you prepare for tests.	<b>11.</b> If $x + 4 = 9$ , then $x = 5$ . <b>12.</b> $3(x + 5) = 3x + 15$ <i>Here's a</i>

Also, in every lesson you will find a variety of Student Help notes.

## STUDENT HELP

## In the Book

**Study Tip** The study tips will help; you avoid common errors.

**Skills Review** Here you can find where to review skills you've studied in earlier math classes.

**Look Back** Here are references to material in earlier lessons that may help you understand the lesson.

**Extra Practice** Your book contains more exercises to practice the skills. you are learning.

**Homework Help** Here you can find suggestions about which Examples may help you solve Exercises..

## Cn the Internet

**Homework Help:** These are places where you can find additional examples on the Web site, and additional suggestions for solving an exercise.

**Keystroke Help** These provide the exact keystroke sequences for many different kinds of calculators.

**Software Help** These provide the instructions for geometry software applications.

