

PREVIEW

What's the chapter about?

Chapter 1 is about **expressions, equations, and inequalities**. In Chapter 1 you'll learn

- how to evaluate and simplify numerical and algebraic expressions.
- how to solve linear and absolute value equations and inequalities.
- how to use algebra to model and solve real-life problems.

KEY VOCABULARY

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|--------------------------------|--|--|
| • graph of a real number, p. 3 | • mathematical model, p. 12 | • algebraic model, p. 33 |
| • numerical expression, p. 11 | • terms of an expression, p. 13 | • linear inequality in one variable, p. 41 |
| • order of operations, p. 11 | • linear equation in one variable, p. 19 | • compound inequality, p. 43 |
| • variable, p. 12 | • verbal model, p. 33 | • absolute value, p. 50 |
| • algebraic expression, p. 12 | | |

PREPARE

Are you ready for the chapter?

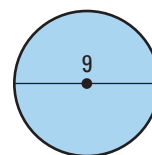
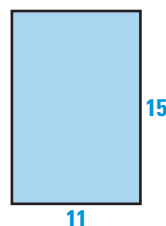
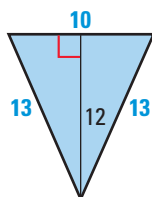
SKILL REVIEW Do these exercises to review key skills that you'll apply in this chapter. See the given **reference page** if there is something you don't understand.

Perform the operation. (Skills Review, p. 905)

- | | | | |
|----------------|-------------|-------------------|--------------------|
| 1. $-3 + 14$ | 2. $7(-10)$ | 3. $-1 - (-9)$ | 4. $-45 \div (-5)$ |
| 5. $(-12)(-2)$ | 6. $8 - 15$ | 7. $30 \div (-3)$ | 8. $-6 + (-2)$ |

Find the area of the figure. (Skills Review, p. 914)

- | | | | |
|-------------|------------|---------------|------------|
| 9. triangle | 10. square | 11. rectangle | 12. circle |
|-------------|------------|---------------|------------|



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.

STUDY STRATEGY

Here's a study strategy!

Vocabulary File

Make a flashcard file of vocabulary words. On the front of an index card, write an important vocabulary word or phrase. On the back of the card write the definition given in the book, along with your own definition if that helps you. Also include symbols, diagrams, examples, and your own notes.