

Study Guide

PREVIEW

What's the chapter about?

Chapter 1 is an **introduction to algebra**. In Chapter 1 you'll learn to

- write and evaluate expressions.
- check solutions to equations and inequalities and use mental math.
- use verbal and algebraic models to represent real-life situations.
- organize data and represent functions.

KEY VOCABULARY

- | | | |
|-----------------------------|----------------------------------|-----------------------------|
| ▶ New | • exponent, p. 9 | • inequality, p. 26 |
| • variable expression, p. 3 | • base of a power, p. 9 | • function, p. 46 |
| • unit analysis, p. 5 | • order of operations, p. 16 | • input-output table, p. 46 |
| • verbal model, p. 5 | • equation, p. 24 | • domain, p. 47 |
| • power, p. 9 | • solution of an equation, p. 24 | • range, p. 47 |

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.

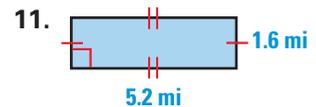
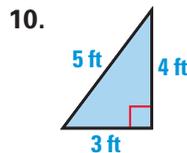
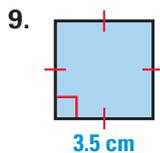
Write the percent as a decimal and as a fraction or a mixed number in lowest terms. (Skills Review, pp. 784–785)

1. 60% 2. 33% 3. 0.08% 4. 150%

Complete the statement using > or <. (Skills Review, pp. 779–780)

5. $899 \underline{\quad} 901$ 6. $64.1 \underline{\quad} 64.03$ 7. $2050 \underline{\quad} 2005$ 8. $0.099 \underline{\quad} 0.01$

Find the area and perimeter of the figure. (Skills Review, pp. 790–791)



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!

Keeping a Math Notebook

- Keep a notebook of math notes about each chapter, separate from your homework exercises. This will help you remember new concepts and skills.
- Review your notes each day before you start your next homework assignment.