

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

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

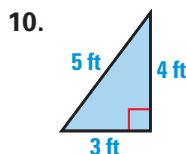
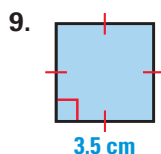
Write the percent as a decimal and as a fraction or a mixed number in lowest terms. (Skills Review, pp. 784–785)

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.