



#### PREVIEW

### What's the chapter about?

Chapter 4 is about **graphing linear equations**. In Chapter 4, you'll learn

- how to graph linear equations.
- two ways to graph linear equations quickly.
- how to tell whether an equation or a graph represents a function.

New

p. 210

### KEY VOCABULARY

### Review

- variable expression, p. 3
- solution of an equation, p. 24
- function, p. 46
- linear equation, p. 133
- coordinate plane, p. 203
- scatter plot, p. 204
- graph of a linear equation,

• x-intercept, p. 218

- 203 slope, p. 226 • rate of chan
  - rate of change, p. 229

• y-intercept, p. 218

- slope-intercept form, p. 241
- function notation, p. 257



STUDENT HELP

throughout the chapter give you study tips and

tell you where to look for

extra help in this book and on the Internet.

Study Tip "Student Help" boxes

## 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.

Rewrite as a decimal and as a fraction in lowest terms. (Skills Review, p. 784)

<b>1</b> . 50%	<b>2.</b> 75%	<b>3.</b> 1%	<b>4.</b> 20%

### Use the function y = 5x + 70, where $x \ge 0$ . (Review Examples 1 and 2, pp. 46–47)

- **5.** For several inputs *x*, use the function to calculate an output *y*.
- 6. Represent the data with a line graph.
- 7. Describe the domain and range of the function.

Evaluate the expression for the given values of the variables. (Review Example 3, p. 109)

**8.** 
$$\frac{x-y}{2}$$
 when  $x = -3$  and  $y = -1$   
**9.**  $\frac{x+2y}{x}$  when  $x = 6$  and  $y = 3$ 

Here's a study strategy!

# **Getting Your Questions Answered**

Each day after you finish your math homework, write a list of questions about things you don't understand. Ask your teacher or another student to answer your questions and write the explanations in your notebook.



# the chapter?