

# 3

# Solving Linear Equations



- A.7.B
- A.4.A
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- A.7.B
- A.4.A
- A.3.A
- a.4

- 3.1 Solve One-Step Equations
- 3.2 Solve Two-Step Equations
- 3.3 Solve Multi-Step Equations
- 3.4 Solve Equations with Variables on Both Sides
- 3.5 Write Ratios and Proportions
- 3.6 Solve Proportions Using Cross Products
- 3.7 Solve Percent Problems
- 3.8 Rewrite Equations and Formulas

## Before

In previous courses and chapters, you learned the following skills, which you'll use in Chapter 3: simplifying expressions, writing percents as decimals, and using formulas.

## Prerequisite Skills

### VOCABULARY CHECK

Copy and complete the statement.

- In the expression  $3x + 7 + 7x$ ,   ? and   ? are like terms.
- The reciprocal of  $\frac{5}{8}$  is   ?.

### SKILLS CHECK




Simplify the expression. (Review p. 96 for 3.2–3.6.)

3.  $5x - (6 - x)$     4.  $3(x - 9) - 16$     5.  $23 + 4(x + 2)$     6.  $x(7 + x) + 9x^2$

Write the percent as a decimal. (Review p. 916 for 3.7.)

7. 54%    8. 99%    9. 12.5%    10. 150%

Find the perimeter of the rectangle. (Review p. 924 for 3.8.)

11.  12.  13. 



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