



REVIEW KEY VOCABULARY

- inverse operations, p. 134
- equivalent equations, p. 134
- identity, p. 156
- ratio, p. 162
- proportion, p. 163
- cross product, p. 168
- scale drawing, p. 170
- scale model, p. 170
- scale, p. 170
- literal equation, p. 184

VOCABULARY EXERCISES

- Copy and complete: A(n) ? is a two-dimensional drawing of an object in which the dimensions of the drawing are in proportion to the dimensions of the object.
- Copy and complete: When you perform the same inverse operation on each side of an equation, you produce a(n) ? equation.
- Explain* why the equation $2x + 8x = 3x + 7x$ is an identity.
- Copy and complete: In the proportion $\frac{7}{8} = \frac{28}{32}$, $7 \cdot 32$ and $8 \cdot 28$ are ?.
- Describe* the steps you would take to write the equation $6x - 2y = 16$ in function form.

REVIEW EXAMPLES AND EXERCISES

Use the review examples and exercises below to check your understanding of the concepts you have learned in each lesson of Chapter 3.

3.1 Solve One-Step Equations

pp. 134–140

EXAMPLE

Solve $\frac{x}{5} = 14$.

$$\frac{x}{5} = 14 \quad \text{Write original equation.}$$

$$5 \cdot \frac{x}{5} = 5 \cdot 14 \quad \text{Multiply each side by 5.}$$

$$x = 70 \quad \text{Simplify.}$$

EXERCISES

Solve the equation. Check your solution.

6. $x - 4 = 3$

7. $-8 + a = 5$

8. $4m = -84$

9. $-5z = 75$

10. $11 = \frac{r}{6}$

11. $-27 = \frac{3}{4}w$

12. **PARKS** A rectangular city park has an area of 211,200 square feet. If the length of the park is 660 feet, what is the width of the park?

EXAMPLES
1, 2, 3, 4 and 5
on pp. 134–136
for Exs. 6–12