



REVIEW KEY VOCABULARY

- variable, value of a variable, p. 2
- algebraic expression, p. 2
- evaluate an algebraic expression, p. 2
- power, exponent, base, p. 3
- order of operations, p. 8
- verbal model, p. 16
- rate, unit rate, p. 17
- open sentence, p. 21
- equation, inequality, p. 21
- solution of an equation or inequality, p. 22
- formula, p. 30
- function, p. 35
- input, output, p. 35
- domain, range, p. 35
- independent variable, p. 36
- dependent variable, p. 36

VOCABULARY EXERCISES

In Exercises 1–3, copy and complete the statement.

1. In the power 7^{12} , ? is the base and ? is the exponent.
2. A(n) ? is an open sentence that contains an equal sign.
3. A(n) ? consists of numbers, variables, and operations.
4. **WRITING** Describe how you can tell by looking at the graph of a function which variable is the input variable and which is the output variable.

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 1.

1.1 Evaluate Expressions

pp. 2–7

EXAMPLE

Evaluate $6 - n$ when $n = 4$.

$$\begin{aligned} 6 - n &= 6 - 4 && \text{Substitute 4 for } n. \\ &= 2 && \text{Simplify.} \end{aligned}$$

EXERCISES

Evaluate the expression.

5. $3 + x$ when $x = 13$
6. $y - 2$ when $y = 18$
7. $\frac{20}{k}$ when $k = 2$
8. $40w$ when $w = 0.5$
9. z^2 when $z = 20$
10. w^3 when $w = 0.1$
11. **DVD STORAGE** A plastic storage sleeve for a DVD has the shape of a square with an edge length of 5 inches. What is the area of the sleeve?
12. **NOTEPAPER** You store square notepaper in a cube-shaped box with an inside edge length of 3 inches. What is the volume of the box?

EXAMPLES
1, 4, and 5
on pp. 2–4
for Exs. 5–12