

# 1 Introduction to Algebra

## 1-1 Variables

**Objective:** To simplify numerical expressions and evaluate variable expressions.

### Vocabulary

**Variable** A symbol, such as the letter  $x$ , used to represent one or more numbers.

**Value of a variable** A number that a variable may represent.

**Variable expression** An expression, such as  $x + 5$ , that contains a variable.

**Numerical expression, or numeral** An expression, such as  $6 + 5$ , that names a particular number, called the value of the expression.

**Simplifying an expression** Replacing a numerical expression by the simplest name of its value.

**Evaluating an expression** Replacing each variable by a given value and simplifying the result.

**Symbols**  $=$  (is equal to)  $\neq$  (is not equal to)  $ab$  or  $a \cdot b$  (multiply)

**CAUTION** To evaluate  $ab$  when  $a = 4$  and  $b = 5$ , be sure to write a multiplication symbol:  $ab = 4 \cdot 5$ .

**Example 1** Simplify: a.  $4 + (10 - 3)$  b.  $(20 + 4) + (6 - 3)$

**Solution** Simplify the numerical expression(s) within parentheses first.

$$\begin{array}{ll} \text{a. } 4 + \underbrace{(10 - 3)}_{7} & \text{b. } \underbrace{(20 + 4)}_{24} + \underbrace{(6 - 3)}_{3} \\ 4 + 7 & 24 + 3 \\ 11 & 27 \end{array}$$

Simplify each expression.

1.  $5 + (15 - 3)$

2.  $8 + (30 + 2)$

3.  $16 - (3 \times 7)$

4.  $13 - (4 \times 2)$

5.  $(9 + 6) + 4$

6.  $9 + (6 + 4)$

7.  $(22 - 17) \times 6$

8.  $(36 + 9) + 16$

9.  $(18 + 3) + (10 + 5)$

10.  $(8 \times 11) - (3 \times 11)$

11.  $(24 + 6) + (30 + 2)$

12.  $(42 + 7) + (1 \times 3)$

**Example 2** Evaluate each expression if  $x = 2$  and  $y = 3$ .

a.  $xy$

b.  $5xy$

c.  $(6x) - 3$

**Solution** Replace  $x$  with 2. Replace  $y$  with 3. Insert the multiplication symbol(s).

$$\begin{array}{lll} \text{a. } xy = 2 \cdot 3 = 6 & \text{b. } 5xy = 5 \cdot 2 \cdot 3 = 30 & \text{c. } (6x) - 3 = \underline{\underline{6 \cdot 2 - 3}} \\ & & = 12 - 3 \\ & & = 9 \end{array}$$

# Algebra Structure And Method Test 28 Answers

**Mary P. Dolciani**

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*Algebra, Structure and Method* Mary P. Dolciani,1986

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