

# 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.  $(20 \div 4) + (6 \div 3)$

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

$$\begin{array}{rcl} \text{a. } 4 + (10 - 3) & \text{b. } (20 \div 4) + (6 \div 3) \\ 4 + \underline{7} & \underline{5} + \underline{2} \\ \underline{\quad} & \underline{\quad} \\ 11 & 7 \end{array}$$

Simplify each expression.

- |                                     |                                 |                                     |
|-------------------------------------|---------------------------------|-------------------------------------|
| 1. $5 + (15 - 3)$                   | 2. $8 + (30 \div 2)$            | 3. $16 - (0 \times 7)$              |
| 4. $13 - (4 \times 2)$              | 5. $(9 \div 6) + 4$             | 6. $9 + (6 \div 4)$                 |
| 7. $(22 - 17) \times 6$             | 8. $(36 \div 9) + 16$           | 9. $(18 \div 3) + (10 \div 5)$      |
| 10. $(8 \times 11) - (3 \times 11)$ | 11. $(24 \div 6) + (30 \div 2)$ | 12. $(42 \div 7) \div (1 \times 3)$ |

**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).

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

# Algebra Structure And Method Test 12 Answers

**William G. McCallum, Eric  
Connally, Deborah Hughes-Hallett**



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