

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).

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

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Algebra, Structure and Method Mary P. Dolciani,1986 EPIE Educational Product Report EPIE Institute,1974

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