

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.

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

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).

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

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