

8-1**Study Guide and Intervention**

7AF1.1, 7AF1.3, 7AF1.4

Simplifying Algebraic Expressions

The Distributive Property can be used to simplify algebraic expressions.

Examples Use the Distributive Property to rewrite each expression.

1 $3(a + 5)$

$$\begin{aligned} 3(a + 5) &= 3(a) + 3(5) && \text{Distributive Property} \\ &= 3a + 15 && \text{Simplify.} \end{aligned}$$

2 $-2(d - 3)$

$$\begin{aligned} -2(d - 3) &= -2[d + (-3)] && \text{Rewrite } d - 3 \text{ as } d + (-3). \\ &= -2(d) + (-2)(-3) && \text{Distributive Property} \\ &= -2(d) + 6 && \text{Simplify.} \end{aligned}$$

When a plus sign separates an algebraic expression into parts, each part is called a **term**, in terms that contain a variable, the numerical part of the term is called the **coefficient** of the variable. A term without a variable is called a **constant**. **Like terms** contain the same variables, such as $3x$ and $2x$.

Example 3 Identify the terms, like terms, coefficients, and constants in the expression $7x - 5 + x - 3x$.

$$\begin{aligned} 7x - 5 + x - 3x &= 7x + (-5) + x + (-3x) && \text{Definition of subtraction} \\ &= 7x + (-5) + 1x + (-3x) && \text{Identity Property: } x = 1x \end{aligned}$$

The terms are $7x$, -5 , x , and $-3x$. The like terms are $7x$, x , and $-3x$. The coefficients are 7, 1, and -3 . The constant is -5 .

An algebraic expression is in simplest form if it has no like terms and no parentheses.

Example 4 Simplify the expression $-2m + 5 + 6m - 3$.

$-2m$ and $6m$ are like terms. 5 and -3 are also like terms.

$$\begin{aligned} -2m + 5 + 6m - 3 &= -2m + 5 + 6m + (-3) && \text{Definition of subtraction} \\ &= -2m + 6m + 5 + (-3) && \text{Commutative Property} \\ &= (-2 + 6)m + 5 + (-3) && \text{Distributive Property} \\ &= 4m + 2 && \text{Simplify.} \end{aligned}$$

Exercises

Use the Distributive Property to rewrite each expression.

1. $2(c + 6)$

2. $-4(w + 6)$

3. $(b - 4)(-3)$

4. Identify the terms, like terms, coefficients, and constants in the expression $4m - 2 + 3m + 5$.

Simplify each expression.

5. $3d + 6d$

6. $2 + 5s - 4$

7. $2z + 3 + 9z - 8$

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Tao Wei



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