

## DISTRIBUTIVE PROPERTY

8-4

The **Distributive Property** is used to express a monomial multiplied by a polynomial with two or more terms by multiplying each term of the polynomial. The resulting sum is an equivalent monomial or algebraic expression. Also see the methods, page 199. In general, the Distributive Property is expressed as:

$$a(b + c) = ab + ac \quad \text{and} \quad (b + c)a = ba + ca$$

### Example 1

$$3(x + 4) = 3 \cdot x + 3 \cdot 4 = 3x + 12$$

### Example 2

$$-2x + 7y + 10z = -2 \cdot x + 7 \cdot y + 10 \cdot z = -2x + 7y + 10z$$

Simplify each expression below by applying the Distributive Property. Perform the correct order of operations in problems 18 through 22.

1.  $5(x + 3)$

2.  $4(x + 2)$

3.  $2(x + 6y)$

4.  $3(x + 4y)$

5.  $3(x - 4)$

6.  $4(x - 6)$

7.  $-2(x + 3y + 4)$

8.  $-2(x + 3y)$

9.  $-4(x - 3)$

10.  $-4(x - 3)$

11.  $-4(y + 3)$

12.  $-4(x + 3)$

13.  $3(x + y + 6)$

14.  $5(x + 2y + 3)$

15.  $2(x + y + 6)$

16.  $-4(3x + y + 2)$

17.  $4(x + 2y)$

18.  $4(x + 2y + 3x^2 + 4x^2)$

19.  $4(2x^2 + 3x + 7y)$

20.  $(x + 3 + x)(6)$

21.  $3x(2y^2 + 7(\frac{1}{2} + \frac{1}{2}) + 3^2)$

22.  $3(x^2 + \frac{1}{2}(x + 2) + 4x)$

### Answers

1.  $5x + 15$  or  $5(x + 3)$  or  $5x + 15$

2.  $4x + 8$  or  $4(x + 2)$  or  $4x + 8$

3.  $2x + 12y$

4.  $3x + 12y$

5.  $3x - 12$

6.  $4x - 24$

7.  $-2x - 6y - 8$

8.  $-2x - 6y - 8$

9.  $-4x + 12$

10.  $-4x + 12$

11.  $-4y - 12$

12.  $-4x - 12$

13.  $3x + 3y + 18$

14.  $5y + 10x + 15$

15.  $4x + 8y + 6$

16.  $-4(3x + y + 2)$

17.  $x^2 + 3x^2 + 4x^2$

18.  $4x^2 + 4x + 12$

19.  $8x^2 + 12xy + 12$

20.  $x^2 + 3x + 6$

21.  $35x + 36x^2$

22.  $3y + 4x^2$

# Distributive Property Lesson Plans Algebra 2

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A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the authors' names.

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