

**DISTRIBUTIVE PROPERTY**

8-4

The **Distributive Property** is used to express a product of a monomial and a polynomial with two or more terms by multiplying each factor in terms of the polynomial. The resulting sum is an equivalent expression for algebraic simplification. 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**

$$2(a + b) + c \quad ab + c \quad ab + 2a + b$$

**Example 2**

$$3a + 2b + (a + c) \quad ab + c \quad 2(a + b + c) + 2a + 4b + 2$$

Simplify each expression below by applying the Distributive Property. Reduce the answer if needed. All operations in problems 18 through 22.

1.  $3(a + b)$

2.  $4(c + d)$

3.  $2(x + y)$

4.  $5(z + w)$

5.  $3(p + q)$

6.  $4(r + s)$

7.  $2(t + u)$

8.  $3(v + w)$

9.  $-4(x + y)$

10.  $-3(z + w)$

11.  $-2(p + q)$

12.  $-4(r + s)$

13.  $3(a + b) + c$

14.  $5(d + e) + f$

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

16.  $-4(w + x) + y$

17.  $4(a + b)$

18.  $4(p + 2q + r^2 + s^2)$

19.  $3(2a^2 + 3b + 7c)$

20.  $(a + b + c)(d)$

21.  $3a(2b^2 + 7(c + d) + e^2)$

22.  $4(d^2 + (e + f) + gh)$

**Answers**

1.  $3a + 3b$  or  $3(a + b)$

2.  $4c + 4d$  or  $4(c + d)$

3.  $2x + 2y$

4.  $5z + 5w$

5.  $3p + 3q$

6.  $4r + 4s$

7.  $2t + 2u$

8.  $3v + 3w$

9.  $-4x - 4y$

10.  $-3z - 3w$

11.  $-2p - 2q$

12.  $-4r - 4s$

13.  $3a + 3b + 3c$

14.  $5d + 5e + 5f$

15.  $2x + 2y + 2z$

16.  $-4w - 4x + y$

17.  $4a + 4b + 4c$

18.  $4p^2 + 8q + 4r^2$

19.  $6a^2 + 12b + 21c$

20.  $ad + bd + cd$

21.  $6ab^2 + 21a(c + d) + 3ae^2$

22.  $4d^2 + 4e + 4f + 4gh$

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**N Colangelo**



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