

9-2

Study Guide and Intervention

Factoring Using the Distributive Property

Factor by Using the Distributive Property The Distributive Property has been used to multiply a polynomial by a monomial. It can also be used to express a polynomial in factored form. Compare the two columns in the table below.

Multiplying	Factoring
$3(a + b) = 3a + 3b$	$3a + 3b = 3(a + b)$
$x(y - z) = xy - xz$	$xy - xz = x(y - z)$
$6y(2x + 1) = 6y(2x) + 6y(1)$ $= 12xy + 6y$	$12xy + 6y = 6y(2x) + 6y(1)$ $= 6y(2x + 1)$

Example 1 Use the Distributive Property to factor $12mn + 80m^2$.

Find the GCF of $12mn$ and $80m^2$.

$$12mn = 2 \cdot 2 \cdot 3 \cdot m \cdot n$$

$$80m^2 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot m \cdot m$$

$$\text{GCF} = 2 \cdot 2 \cdot m \text{ or } 4m$$

Write each term as the product of the GCF and its remaining factors.

$$\begin{aligned} 12mn + 80m^2 &= 4m(3 \cdot n) + 4m(2 \cdot 2 \cdot 5 \cdot m) \\ &= 4m(3n) + 4m(20m) \\ &= 4m(3n + 20m) \end{aligned}$$

$$\text{Thus } 12mn + 80m^2 = 4m(3n + 20m).$$

Example 2 Factor

$6ax + 3ay + 2bx + by$ by grouping.

$$\begin{aligned} 6ax + 3ay + 2bx + by &= (6ax + 3ay) + (2bx + by) \\ &= 3a(2x + y) + b(2x + y) \\ &= (3a + b)(2x + y) \end{aligned}$$

Check using the FOIL method.

$$\begin{aligned} (3a + b)(2x + y) &= 3a(2x) + (3a)(y) + (b)(2x) + (b)(y) \\ &= 6ax + 3ay + 2bx + by \checkmark \end{aligned}$$

Exercises

Factor each polynomial.

1. $24x + 48y$

2. $30mn^2 + m^2n - 6n$

3. $q^4 - 18q^3 + 22q$

4. $9x^2 - 3x$

5. $4m + 6n - 8mn$

6. $45s^3 - 15s^2$

7. $14c^3 - 42c^5 - 49c^4$

8. $55p^2 - 11p^4 + 44p^5$

9. $14y^3 - 28y^2 + y$

10. $4x + 12x^2 + 16x^3$

11. $4a^2b + 28ab^2 + 7ab$

12. $6y + 12x - 8z$

13. $x^2 + 2x + x + 2$

14. $6y^2 - 4y + 3y - 2$

15. $4m^2 + 4mn + 3mn + 3n^2$

16. $12ax + 3bz + 4ay + yz$

17. $12a^2 + 3a - 8a - 2$

18. $xa + ya + x + y$

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