

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. $xa + ya + x + y$

Factoring Using The Distributive Property Study Guide

Reza Nazari



Factoring Using The Distributive Property Study Guide:

Factoring Using The Distributive Property Stidy Guide Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Factoring Using The Distributive Property Stidy Guide**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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