

8-5 Study Guide and Intervention

Using the Distributive Property

Use the Distributive Property to Factor 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 $12mp + 80m^2$.

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

$$12mp = 2 \cdot 2 \cdot 3 \cdot m \cdot p$$

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

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

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

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

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

Exercises

Factor each polynomial.

1. $24x + 48y$

4. $9x^2 - 3x$

7. $14t^3 - 42t^2 - 49t^4$

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

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

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

2. $30mp^2 + m^2p - 6p$

5. $4m + 6p - 8mp$

8. $55p^2 - 11p^4 + 44p^3$

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

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

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

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.

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

3. $q^4 - 18q^2 + 22q$

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

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

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

15. $4m^2 + 4mp + 3mp + 3p^2$

18. $xa + ya + x + y$

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stride rate refers to the number of steps per minute spm you take as you run in other words it s the speed at which your legs churn over as you pound the trails

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web over the past few years studies have emerged that highlight the role of cadence to correct common running related injuries risks as little as a five percent increase in step rate while keeping running velocity constant has been shown to reduce shock absorption at the level of the knee by 20 percent additionally increasing cadence by 10

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web oct 17 2023 recreational runners tend to have a cadence between 150 to 180 strides per minute spm faster runners as we've seen often have a higher cadence for example eliud kipchoge the marathon world record holder is known to achieve a cadence of 190 200spm in general 170 180spm is considered a great running cadence

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