

8-3 Study Guide and Intervention

Multiplying Polynomials

Multiply Binomials To multiply two binomials, you can apply the Distributive Property twice. A useful way to keep track of terms in the product is to use the FOIL method as illustrated in Example 2.

Example 1: Find $(x + 3)(x - 4)$.

Horizontal Method

$$\begin{aligned}(x + 3)(x - 4) &= x(x - 4) + 3(x - 4) \\ &= (x)(x) + x(-4) + 3(x) + 3(-4) \\ &= x^2 - 4x + 3x - 12 \\ &= x^2 - x - 12\end{aligned}$$

Vertical Method

$$\begin{array}{r} x + 3 \\ (x) \underline{) \quad x - 4} \\ \underline{-4x - 12} \\ x^2 + 3x \\ \underline{x^2 - x - 12} \\ + 4x - 12 \\ \underline{-4x - 12} \\ - 24 \end{array}$$

The product is $x^2 - x - 12$.

Example 2: Find $(x - 2)(x + 5)$ using the FOIL method.

$$\begin{aligned}(x - 2)(x + 5) &= \begin{array}{cccc} & \text{First} & \text{Outer} & \text{Inner} & \text{Last} \\ & (x)(x) & + (x)(5) & + (-2)(x) & + (-2)(5) \\ & = x^2 & + 5x & + (-2x) & - 10 \\ & = x^2 & + 3x & - 10 & \end{array} \\ &= x^2 + 3x - 10\end{aligned}$$

The product is $x^2 + 3x - 10$.

Exercises

Find each product.

1. $(x + 2)(x + 5)$
 $x^2 + 9x + 10$

2. $(x - 4)(x + 5)$
 $x^2 + x - 20$

3. $(x - 4)(x - 2)$
 $x^2 - 6x + 8$

4. $(y - 4)(y + 2)$
 $y^2 - 2y - 8$

5. $(y + 5)(y + 2)$
 $y^2 + 7y + 10$

6. $(2x - 3)(x + 5)$
 $2x^2 + 7x - 15$

7. $(2x - 4)(2x - 4)$
 $4x^2 - 16x + 16$

8. $(2x - 2)(2x + 2)$
 $4x^2 - 4$

9. $(2x + 4)(2x - 4)$
 $4x^2 - 16$

10. $(2x + 3)(2x + 2)$
 $4x^2 + 10x + 6$

11. $(x - 4)(x - 5)$
 $x^2 - 9x + 20$

12. $(x + 4)(2x - 4)$
 $2x^2 - 2x - 16$

13. $(2x - 3)(2x - 2)$
 $4x^2 - 10x + 6$

14. $(x - 3)(2x - 5)$
 $2x^2 - 11x + 15$

15. $(x - 3)(2x + 5)$
 $2x^2 - x - 15$

16. $(2x - 4)(2x + 5)$
 $4x^2 + 4x - 20$

17. $(2x - 3)(2x - 5)$
 $4x^2 - 16x + 15$

18. $(2y - 4)(2y + 4)$
 $4y^2 - 16$

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Table of Contents 9 2 Study Guide Intervention Answers

1. Understanding the eBook 9 2 Study Guide Intervention Answers
 - The Rise of Digital Reading 9 2 Study Guide Intervention Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 9 2 Study Guide Intervention Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 9 2 Study Guide Intervention Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 9 2 Study Guide Intervention Answers
 - Personalized Recommendations
 - 9 2 Study Guide Intervention Answers User Reviews and Ratings
 - 9 2 Study Guide Intervention Answers and Bestseller Lists
5. Accessing 9 2 Study Guide Intervention Answers Free and Paid eBooks
 - 9 2 Study Guide Intervention Answers Public Domain eBooks
 - 9 2 Study Guide Intervention Answers eBook Subscription Services
 - 9 2 Study Guide Intervention Answers Budget-Friendly Options
6. Navigating 9 2 Study Guide Intervention Answers eBook Formats

- ePub, PDF, MOBI, and More
 - 9 2 Study Guide Intervention Answers Compatibility with Devices
 - 9 2 Study Guide Intervention Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 9 2 Study Guide Intervention Answers
 - Highlighting and Note-Taking 9 2 Study Guide Intervention Answers
 - Interactive Elements 9 2 Study Guide Intervention Answers
8. Staying Engaged with 9 2 Study Guide Intervention Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 9 2 Study Guide Intervention Answers
9. Balancing eBooks and Physical Books 9 2 Study Guide Intervention Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 9 2 Study Guide Intervention Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 9 2 Study Guide Intervention Answers
- Setting Reading Goals 9 2 Study Guide Intervention Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 9 2 Study Guide Intervention Answers
- Fact-Checking eBook Content of 9 2 Study Guide Intervention Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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