

8-5 Study Guide and Intervention

Factoring Quadratic Trinomials

Factor $x^2 + bx + c$ by finding two integers whose product is c and whose sum is b . Use the integers to write the trinomial as a product of two binomials.

Factoring $x^2 + 10x + 24$ $x^2 + 10x + 24$ is a trinomial with constant $c = 24$ and coefficient $b = 10$.

Example 1 Factor $x^2 + 10x + 24$.

Let $x^2 + 10x + 24 = (x + a)(x + b)$.

So the constant term 24 can be written

Factor 1	Factor 2
1 • 24	1 • 24
2 • 12	3 • 8

Since 2 + 8 = 10, 2 and 8 are the integers whose product is 24.

$x^2 + 10x + 24 = (x + 2)(x + 8)$

or $x^2 + 10x + 24 = (x + 8)(x + 2)$

Another way to find the integers is to list the factors of 24. Notice that only one factorization yields a sum of 10, so the integers are 2 and 8.

Since 2 + 8 = 10, 2 and 8 are the integers whose product is 24.

$x^2 + 10x + 24 = (x + 2)(x + 8)$

or $x^2 + 10x + 24 = (x + 8)(x + 2)$

Example 2 Factor $x^2 + 12x + 20$.

Let $x^2 + 12x + 20 = (x + a)(x + b)$.

So the constant term 20 can be written

1 • 20	4 • 5
2 • 10	

Since 4 + 5 = 9,

$x^2 + 12x + 20 = (x + 2)(x + 10)$

or $x^2 + 12x + 20 = (x + 10)(x + 2)$

Let $x^2 + 12x + 20 = (x + a)(x + b)$.

So the constant term 20 can be written

1 • 20	4 • 5
2 • 10	

Since 2 + 10 = 12,

$x^2 + 12x + 20 = (x + 2)(x + 10)$

or $x^2 + 12x + 20 = (x + 10)(x + 2)$

Let $x^2 + 12x + 20 = (x + a)(x + b)$.

So the constant term 20 can be written

1 • 20	4 • 5
2 • 10	

Since 4 + 5 = 9,

$x^2 + 12x + 20 = (x + 2)(x + 10)$

or $x^2 + 12x + 20 = (x + 10)(x + 2)$

Example 3 Factor $x^2 + 11x + 28$.

Let $x^2 + 11x + 28 = (x + a)(x + b)$. The constant term 28 is positive and the coefficient 11 is positive, so the integers are both positive.

So the constant term 28 can be written

Factor 1	Factor 2
1 • 28	1 • 28
2 • 14	4 • 7
4 • 7	
7 • 4	

Since 4 + 7 = 11, 4 and 7 are the

integers whose product is 28.

$x^2 + 11x + 28 = (x + 4)(x + 7)$

or $x^2 + 11x + 28 = (x + 7)(x + 4)$

Let $x^2 + 11x + 28 = (x + a)(x + b)$.

So the constant term 28 can be written

1 • 28	4 • 7
2 • 14	

Since 4 + 7 = 11,

$x^2 + 11x + 28 = (x + 4)(x + 7)$

or $x^2 + 11x + 28 = (x + 7)(x + 4)$

Let $x^2 + 11x + 28 = (x + a)(x + b)$.

So the constant term 28 can be written

1 • 28	4 • 7
2 • 14	

Since 2 + 14 = 16,

$x^2 + 11x + 28 = (x + 2)(x + 14)$

or $x^2 + 11x + 28 = (x + 14)(x + 2)$

Let $x^2 + 11x + 28 = (x + a)(x + b)$.

So the constant term 28 can be written

1 • 28	4 • 7
2 • 14	

Since 4 + 7 = 11,

$x^2 + 11x + 28 = (x + 4)(x + 7)$

or $x^2 + 11x + 28 = (x + 7)(x + 4)$

Let $x^2 + 11x + 28 = (x + a)(x + b)$.

So the constant term 28 can be written

1 • 28	4 • 7
2 • 14	

Since 4 + 7 = 11,

$x^2 + 11x + 28 = (x + 4)(x + 7)$

or $x^2 + 11x + 28 = (x + 7)(x + 4)$

8 1 Study Guide And Intervention Answers

Julia Schneider



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Table of Contents 8 1 Study Guide And Intervention Answers

1. Understanding the eBook 8 1 Study Guide And Intervention Answers
 - The Rise of Digital Reading 8 1 Study Guide And Intervention Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 8 1 Study Guide And 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 8 1 Study Guide And Intervention Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 8 1 Study Guide And Intervention Answers
 - Personalized Recommendations
 - 8 1 Study Guide And Intervention Answers User Reviews and Ratings
 - 8 1 Study Guide And Intervention Answers and Bestseller Lists
5. Accessing 8 1 Study Guide And Intervention Answers Free and Paid eBooks
 - 8 1 Study Guide And Intervention Answers Public Domain eBooks
 - 8 1 Study Guide And Intervention Answers eBook Subscription Services

- 8 1 Study Guide And Intervention Answers Budget-Friendly Options
- 6. Navigating 8 1 Study Guide And Intervention Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 8 1 Study Guide And Intervention Answers Compatibility with Devices
 - 8 1 Study Guide And Intervention Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 8 1 Study Guide And Intervention Answers
 - Highlighting and Note-Taking 8 1 Study Guide And Intervention Answers
 - Interactive Elements 8 1 Study Guide And Intervention Answers
- 8. Staying Engaged with 8 1 Study Guide And Intervention Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 8 1 Study Guide And Intervention Answers
- 9. Balancing eBooks and Physical Books 8 1 Study Guide And Intervention Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 8 1 Study Guide And Intervention Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 8 1 Study Guide And Intervention Answers
 - Setting Reading Goals 8 1 Study Guide And Intervention Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 8 1 Study Guide And Intervention Answers
 - Fact-Checking eBook Content of 8 1 Study Guide And 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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