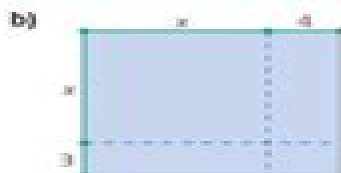
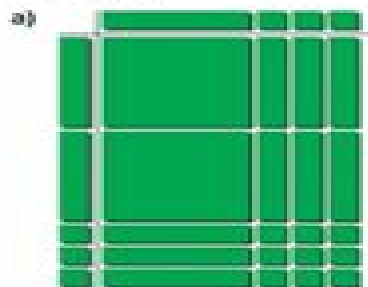


1. What binomial product does each diagram illustrate?



2. Simplify.

- a)  $4x^2(3x - 5y + 8z)$   
 b)  $3m(6m^2 - 5m + 4) - (4m^3 - 8m^2 + 9)$

3. Expand and simplify.

- a)  $(y + 5)(y + 9)$   
 b)  $(4x - 7)(3x + 2)$   
 c)  $(6k + 1)(6k - 1)$   
 d)  $(w - 8)^2$   
 e)  $(4c + 5d)^2$   
 f)  $2(x - 4)(x - 7) - 5(8x - 9)(8x + 9)$

4. The minimum stopping distance, after a delay of 1 s, for a particular car is modelled by the formula  $d = 0.006(x + 1)^2$ , where  $d$  represents the stopping distance, in metres, and  $x$  represents the initial speed, in kilometres per hour.

- a) Expand and simplify the formula.  
 b) Compare the results in both versions of the formula for an initial speed of 60 km/h.

5. Factor.

- a)  $9cd^2e^2 + 6cd^3e$   
 b)  $15p^3qr^2 - 25p^2q^2r + 5pqr$   
 c)  $5(x + 6) - 2(x + 6)$   
 d)  $16x^2 + 8x - 6x - 3$

6. a) Find an algebraic expression for the surface area of the square-based prism.



- b) Expand and simplify your expression from part a).  
 c) Factor the resulting expression from part b).

7. Factor.

- a)  $x^2 + 11x + 24$   
 b)  $y^2 - 15y + 56$   
 c)  $n^2 - n - 90$   
 d)  $x^2 - 14x + 49$   
 e)  $h^2 - 100$   
 f)  $d^2 + 16d + 64$

8. Factor.

- a)  $3k^2 + 12km - 36m^2$   
 b)  $8y^2 + 19y + 6$   
 c)  $9w^2 - 24w + 7$   
 d)  $25a^2 + 60a + 36$   
 e)  $121u^2 - 144$   
 f)  $10x^2 - 7xy - 6y^2$

9. Explain how to determine whether or not you can factor  $9x^2 - 10x + 18$  over the integers.

10. The area of a rectangle is given as  $x^2 + 13x - 30$ .

- a) Determine polynomials that represent the length and width of the rectangle.  
 b) What is the smallest integer value of  $x$  for which this area expression makes sense?

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**Laurie Boswell, Patsy F. Kanter**



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### Table of Contents **Mathlinks 7 Chapter 10 Test**

1. Understanding the eBook Mathlinks 7 Chapter 10 Test
  - The Rise of Digital Reading Mathlinks 7 Chapter 10 Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathlinks 7 Chapter 10 Test
  - 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 Mathlinks 7 Chapter 10 Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathlinks 7 Chapter 10 Test
  - Personalized Recommendations
  - Mathlinks 7 Chapter 10 Test User Reviews and Ratings
  - Mathlinks 7 Chapter 10 Test and Bestseller Lists

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