

Directions: Read each problem carefully, and show all of your work to receive full credit. Remember that partial credit is possible, so you never want to leave a question blank - do your best to try each problem!

1. Solve each of the following equations for  $x$ .

a.  $3(x-20) = 1$

$3x - 60 = 1$   
 $3x = 61$   
 $x = \frac{61}{3}$

b.  $3(x+5) - 2(x-1) = 4$   
 $3x + 15 - 2x + 2 = 4$   
 $x + 17 = 4$   
 $x = -13$

Distribute the negative!

c.  $2 = \frac{7x}{8}$   
 $16 = 7x$   
 $x = \frac{16}{7}$

d. Check your solution to (b) by plugging in.

$3(-13+5) - 2(-13-1) = 4$   
 $3(-8) - 2(-14) = 4$   
 $-24 + 28 = 4$  ✓

2.) Copy and complete each of the Diamond Problems below. The pattern used in the Diamond Problems is shown at right.



3.) Find the dimensions of the generic rectangle at right. Then write an equivalency statement (length · width = area) of the area as a product and as a sum.



Area as a Product = Area as a Sum  
 $(x+3)(x-5) = x^2 - 2x - 15$

4.) Rewrite each of the following expressions without any negative exponents. Show your steps!

a.)  $2x^{-3} = \frac{2}{x^3}$

b.)  $(2c)^{-3} = \frac{1}{8c^3}$

c.)  $(2x^3)^0 = 1$

d.)  $\left(\frac{2x}{3}\right)^{-2} = \frac{9}{4x^2}$

Please look up laws of exponents.

I didn't show steps. what steps did I skip? Any more steps?

5.) Ms. Wittig has two rabbits, Belle and Beau. Beau is one year older than Belle, and the sum of their ages is 5 years. Set up an equation OR system of equations. Then, solve it to find out how old each rabbit is.

Let  $x =$  Belle's age,  $y =$  Beau's age.

Belle is 2, Beau is 3 yrs old.

$x + y = 5$   
 $y = (x+1)$

Substitute

$x + x + 1 = 5$

$2x + 1 = 5$

$2x = 4$

$x = 2$

$y = x + 1 \rightarrow y = 3$

# Chapter 7 Math Test

**Edith Wagner**



## Chapter 7 Math Test:

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### **Table of Contents Chapter 7 Math Test**

1. Understanding the eBook Chapter 7 Math Test
  - The Rise of Digital Reading Chapter 7 Math Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 7 Math 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 Chapter 7 Math Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 7 Math Test
  - Personalized Recommendations

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