

Chapter Test

Form B

Chapter 2

Solve each equation. Then check your answer.

1. $x + 15 = 11$

2. $-4x + 7 = -21$

3. $k - 23 = -31$

4. $6w - 13 = 17$

5. $\frac{g}{6} = 9$

6. $9y = 63$

7. $7(x - 2) - 4x = 10$

8. $\frac{1}{3}(h - 7) = 9$

9. $\frac{3y - 3}{8} = \frac{3}{4}$

10. $9(m - 5) = 108$

11. $9a + 7 - 4a = -33$

12. $15.7y - 13.7y = -26$

13. If $-2d + 5 = -31$, what is the value of $3d - 9$?

14. Solve $6x - 7 = -19$. Justify each step.

Solve each formula in terms of the given variable.

15. $w = \frac{y + z}{3}$; z

16. $6x + 7y = 12$; y

Define a variable and write an equation to model each situation. Then solve.

17. The horticulture class is selling hanging baskets. There was originally \$432.10 in the class account. At the end of the sale, the class has \$1324.56 in its account. How much money did the class earn from the basket sale?
18. A local graphic designer charges \$25.00 for creating a T-shirt design and \$12.75 for each shirt printed with that design. If the math club has a bill totaling \$216.25 for T-shirts for its members, how many members purchased shirts?
19. Tickets to the movie theater for three adults and two children cost \$31.00. An adult's ticket costs \$4.50 more than a child's ticket. What is the cost of an adult's ticket?

Solve. If the equation is an identity, write *identity*. If it has no solution, write *no solution*.

20. $5(x + 2) = 5x - 2$

21. $3(d + 7) - d = 2(d + 10)$

22. $4(w - 3) - w = 3(w - 4)$

23. $8w - 10 + w = 14 + 10w + 4$

24. **Open-Ended** Write a word problem that could be solved using the equation $2(5 + w) = 42$.

Chapter Test B

Edward Lee Thorndike



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Table of Contents Chapter Test B

1. Understanding the eBook Chapter Test B
 - The Rise of Digital Reading Chapter Test B
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter Test B
 - 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 Test B
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter Test B
 - Personalized Recommendations
 - Chapter Test B User Reviews and Ratings
 - Chapter Test B and Bestseller Lists
5. Accessing Chapter Test B Free and Paid eBooks
 - Chapter Test B Public Domain eBooks
 - Chapter Test B eBook Subscription Services
 - Chapter Test B Budget-Friendly Options

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