

3

Chapter 3 Test, Form 2B (continued)

11. Solve the proportion $\frac{1}{8} = \frac{7}{24}$.
 A. 4 B. 28 C. 56 D. 16 11. _____
12. Solve $9a + 28 = 4a + 3$.
 A. -30 B. -20 C. $6\frac{1}{5}$ D. -5 12. _____
13. Solve $3x + 4(x - 8) - x = \frac{3}{5}(10x + 15)$.
 A. 0 B. all numbers C. no solution D. 41 13. _____
14. Solve $4(3r - 2) = -3(r + 7)$.
 A. $-\frac{13}{15}$ B. $-1\frac{4}{15}$ C. $1\frac{14}{15}$ D. $-1\frac{3}{10}$ 14. _____
15. Solve $3b = 6c - 3b$, for c .
 A. $6b - 6$ B. b C. $b - 6$ D. 0 15. _____
16. Find the percent of change. original: 45 new: 54
 A. $33\frac{1}{3}\%$ B. 25% C. $16\frac{2}{3}\%$ D. 20% 16. _____
17. Find the discounted price. radio: \$45.00 discount: 30%
 A. \$15.00 B. \$31.50 C. \$36.00 D. \$42.00 17. _____
18. Nature Drinks wants to combine orange juice they sell for \$0.09 per ounce with guava juice they sell for \$0.14 per ounce to create an orange-guava drink. How many ounces of orange juice should they use to create a 16-ounce drink that would sell for \$1.74?
 A. 10 B. 6 C. 16 D. 0 18. _____
19. Teri begins walking east at 2 miles per hour at 1 P.M. If Cindy leaves from the same point 30 minutes later walking east at 3 miles per hour, when will she catch Teri?
 A. 2:30 P.M. B. 1:30 P.M. C. 2:00 P.M. D. 3:00 P.M. 19. _____
20. **GEOMETRY** The formula for the volume of a cone is $V = \frac{1}{3}\pi r^2 h$, where V represents the volume, r represents the radius of the base, and h represents the height. What is the height of a cone with a volume of 110 cubic centimeters and a base with a radius of 5 centimeters?
 A. 21 cm B. 0.47 cm C. 4.2 cm D. 41.49 cm 20. _____
- Bonus** In a bag of blue, green, and red marbles, 50% are blue and 30% are green. There are 6 red marbles in the bag. If you increase the number of blue marbles by 40%, how many blue marbles will be in the bag? B: _____

Geometry Assessment Form 2d Answer Key

Donald O. Thompson, Dale E. Chimenti



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Table of Contents Geometry Assessment Form 2d Answer Key

1. Understanding the eBook Geometry Assessment Form 2d Answer Key
 - The Rise of Digital Reading Geometry Assessment Form 2d Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Assessment Form 2d Answer Key
 - 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 Geometry Assessment Form 2d Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Assessment Form 2d Answer Key
 - Personalized Recommendations

- Geometry Assessment Form 2d Answer Key User Reviews and Ratings
- Geometry Assessment Form 2d Answer Key and Bestseller Lists
- 5. Accessing Geometry Assessment Form 2d Answer Key Free and Paid eBooks
 - Geometry Assessment Form 2d Answer Key Public Domain eBooks
 - Geometry Assessment Form 2d Answer Key eBook Subscription Services
 - Geometry Assessment Form 2d Answer Key Budget-Friendly Options
- 6. Navigating Geometry Assessment Form 2d Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Assessment Form 2d Answer Key Compatibility with Devices
 - Geometry Assessment Form 2d Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Assessment Form 2d Answer Key
 - Highlighting and Note-Taking Geometry Assessment Form 2d Answer Key
 - Interactive Elements Geometry Assessment Form 2d Answer Key
- 8. Staying Engaged with Geometry Assessment Form 2d Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Assessment Form 2d Answer Key
- 9. Balancing eBooks and Physical Books Geometry Assessment Form 2d Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Assessment Form 2d Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Geometry Assessment Form 2d Answer Key
 - Setting Reading Goals Geometry Assessment Form 2d Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Geometry Assessment Form 2d Answer Key
 - Fact-Checking eBook Content of Geometry Assessment Form 2d Answer Key

- 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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