

Name _____

Unit 6 Study Guide: Similarity
SOL G.5

1. Simplify the ratio.

a. 81 cm: 3 cm

$\frac{9\text{ ft}}{15\text{ yd}}$

b.

$\frac{6\text{ ft}}{48\text{ in}}$

c.

2. The measures of the angles in $\triangle ABC$ are in the extended ratio of 4:5:9. Find the measures of the angles.

3. The Perimeter of a rectangle is 154 feet. The ratio of the length to the width is 10:1. Find the length, the width and the Area of the rectangle.

4. Solve the proportion:

a. $\frac{j+1}{5} = \frac{4}{10}$

b. $\frac{3}{2p+5} = \frac{1}{9p}$

c. $\frac{2-x}{3} = \frac{2x+1}{5}$

5. Find the geometric mean of the two numbers.

a. 3 and 27

b. 40 and 5

c. 6 and 15

6. The ratio of the measures of two supplementary angles is 7:2. Find the measures of the angles.

7. In the diagram below $\frac{RU}{US} = \frac{RV}{VT}$. Find x .

a.



b.



8. Highway A highway on a map is 9 inches long. The actual highway is 36 miles long. What is the scale of the map?

9. **Blueprint** An architect's blueprint of a floor plan for a new condominium has a scale of 1.5 centimeters : 1 foot. With a ruler you measure the width of the kitchen on the blueprint to be about 22.5 centimeters. What is the actual width of the kitchen?

10. Determine whether the polygons are similar. If they are, write a similarity statement and find the scale factor of $DEFG$ to $JKLM$.



Unit 6 Geometry Gallery

Peipei Pang



Unit 6 Geometry Gallery:

Unit 6 Geometry Gallery: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Unit 6 Geometry Gallery : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Unit 6 Geometry Gallery

1. Understanding the eBook Unit 6 Geometry Gallery
 - The Rise of Digital Reading Unit 6 Geometry Gallery
 - Advantages of eBooks Over Traditional Books
2. Identifying Unit 6 Geometry Gallery
 - 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 Unit 6 Geometry Gallery
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unit 6 Geometry Gallery
 - Personalized Recommendations
 - Unit 6 Geometry Gallery User Reviews and Ratings
 - Unit 6 Geometry Gallery and Bestseller Lists
5. Accessing Unit 6 Geometry Gallery Free and Paid eBooks
 - Unit 6 Geometry Gallery Public Domain eBooks
 - Unit 6 Geometry Gallery eBook Subscription Services
 - Unit 6 Geometry Gallery Budget-Friendly Options
6. Navigating Unit 6 Geometry Gallery eBook Formats
 - ePub, PDF, MOBI, and More
 - Unit 6 Geometry Gallery Compatibility with Devices
 - Unit 6 Geometry Gallery Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unit 6 Geometry Gallery
 - Highlighting and Note-Taking Unit 6 Geometry Gallery
 - Interactive Elements Unit 6 Geometry Gallery
8. Staying Engaged with Unit 6 Geometry Gallery

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Unit 6 Geometry Gallery
- 9. Balancing eBooks and Physical Books Unit 6 Geometry Gallery
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unit 6 Geometry Gallery
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Unit 6 Geometry Gallery
 - Setting Reading Goals Unit 6 Geometry Gallery
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Unit 6 Geometry Gallery
 - Fact-Checking eBook Content of Unit 6 Geometry Gallery
 - 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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