

Name: Key

Date: _____

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Geometry w/ Trig

Unit 7 Similarity Review**SHOW ALL WORK** → You must set up a proportion, where necessary, to solve for the variable!**Part A: Ratio and Proportion (section 7.1)**

- 1) 144° The measure of the angles of a quadrilateral have the ratio 2 : 3 : 4 : 6. Find the measure of the largest angle.



$$2x + 3x + 4x + 6x = 360$$

$$15x = 360$$

$$x = 24$$

$$\text{largest} = 6(24) = 144$$

- 2) 60 in a) A photo needs to be enlarged from an original with a length of 12 inches and a width of 10 inches to a size where the new width is 50 inches. What is the new length?
Sketch a diagram first:



$$\frac{1}{5} \frac{10}{50} = \frac{12}{x}$$

$$x = 60$$

Similar

- b) Can you describe the two photos as congruent, similar, or neither?

1 : 5

- c) What is the scale factor of the original photo to the enlarged photo?

$$10 : 50 = 1 : 5$$

- 3) The perimeter of a rectangular living room is 88 feet. The ratio of the width to length is 4 : 7. What is the area of the living room?



$$4x + 7x + 4x + 7x = 88$$

$$22x = 88$$

$$x = 4$$

$$\text{width} = 4(4) = 16 \text{ ft}$$

$$\text{length} = 7(4) = 28 \text{ ft}$$

$$\text{Area} = 16(28) = 448 \text{ ft}^2$$

Part B: Similar Polygons (section 7.2)

- 4) If the ratio of the areas of two similar hexagons is 36 : 49 and the perimeter of the smaller hexagon is 150 feet, find the perimeter of the larger hexagon.

$$\text{ratio of areas} = \frac{36}{49}$$

$$\text{ratio of perimeters} = \frac{6}{7}$$

$$\frac{6}{7} = \frac{150}{P}$$

$$6P = 1050$$

$$P = 175$$

$$\boxed{175 \text{ ft}}$$

- 5) 3 : 4 a) If the ratio of the perimeters of two similar triangles is 3 : 4, what is the ratio of the corresponding side lengths?

9

- b) What is the ratio of the areas?

16

Clarkwork Geometry Chapter 8

ML Yell



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On Altering Architecture Fred Scott, 2007-12-10 In his new text Fred Scott brings together ideas of what might constitute a theory of interior or interventional design *Railroad Age Gazette*, 1877 **The Review of Economics and Statistics**, 1954 **Geometry**, 1998 **Glencoe Geometry**, 1998 Key to Geometry, Book 8: Triangles, Parallel Lines, Similar Polygons, 2012-09-01 Key to Geometry introduces students to a wide range of geometric discoveries as they do step by step constructions Using only a pencil compass and straightedge students begin by drawing lines bisecting angles and reproducing segments Later they do sophisticated constructions involving over a dozen steps When they finish students will have been introduced to 134 geometric terms and will be ready to tackle formal proofs Includes Book 8 of Key to Geometry

Prentice Hall Geometry Robert Kalin, 1993

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Table of Contents Clarkwork Geometry Chapter 8

1. Understanding the eBook Clarkwork Geometry Chapter 8
 - The Rise of Digital Reading Clarkwork Geometry Chapter 8
 - Advantages of eBooks Over Traditional Books
2. Identifying Clarkwork Geometry Chapter 8
 - 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 Clarkwork Geometry Chapter 8
 - User-Friendly Interface
4. Exploring eBook Recommendations from Clarkwork Geometry Chapter 8
 - Personalized Recommendations
 - Clarkwork Geometry Chapter 8 User Reviews and Ratings
 - Clarkwork Geometry Chapter 8 and Bestseller Lists
5. Accessing Clarkwork Geometry Chapter 8 Free and Paid eBooks
 - Clarkwork Geometry Chapter 8 Public Domain eBooks
 - Clarkwork Geometry Chapter 8 eBook Subscription Services
 - Clarkwork Geometry Chapter 8 Budget-Friendly Options
6. Navigating Clarkwork Geometry Chapter 8 eBook Formats

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