

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 $JKLM$.



Answer Key Unit 6 Lesson 4 Geometry

Victor M. Corman

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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SAT Math Workbook: Up-to-Date Practice for the Digital Exam Barron's Educational Series, Lawrence S. Leff, 2024-08-06

This is an intensive preparation for the SAT math sections. It includes an overview of the digital SAT including a breakdown of the sections and how to prepare for exam day. *Resources in Education*, 1992-08. Research in Education, 1973. **Test Prep, High School** Carson-Dellosa Publishing Staff, Spectrum, Spectrum Staff, 2001-03-06. Developed by experts experienced in high stakes testing. American Education Publishing Test Prep provides the essential preparation that young learners need to achieve success on proficiency tests. American Education Publishing Test Prep takes the mystery out of what to expect on test day by explaining strategies and techniques for answering different kinds of questions. Multiple tests in reading math and language arts provide comprehensive practice in key subjects required for proficiency. **Teacher's Edition for Scoring High on the Comprehensive Tests of Basic Skills**, 1991. This program for kindergarten through grade 8 includes practice in reading and mathematics familiarizes students with test formats and directions and teaches test taking strategies.

Standard Service Geometry Work-book Herbert David Welte, Frederic Butterfield Knight, 1929. **Differentiated Instruction for the Middle School Math Teacher** Karen E. D'Amico, Kate Gallaway, 2008-01-02. Differentiated Instruction for the Middle School Math Teacher is a practical and easy to use resource for teaching a standards based math curriculum to all learners. It gives you effective ways to present math concepts shows how to provide opportunities for guided practice and offers ideas for modifying the material to provide access to the same content standard for all students in the inclusive classroom. This book also contains key strategies for collaborating with other professionals suggestions for involving the students families by tying math concepts to students everyday lives and valuable assessment strategies. The lessons in the book cover middle school math topics correlated to the standards of the National Council of Teachers of Math ranging from numbers and operations to problem solving and reasoning. Each lesson includes Instructions for presenting the lesson to the whole class. Worksheets designed to help review and reinforce the concepts presented in each lesson. A section on how to adapt the lesson for the inclusive classroom including descriptions of different stations for different learners. A home school connection with family based everyday math activities. Suggestions for how to assess students grasp of the concepts presented in the lesson. *AQA Modular*, 2010-05-17. Collins New GCSE Maths AQA Modular Teacher's Pack Higher 2 contains everything you need to deliver effective lessons in mathematics with confidence for students working at Grades D to A. Fully matched to AQA's new GCSE Maths Modular specification these teacher resources offer well differentiated lesson plans and additional support. Looking Through the Video Glass University of the State of New York. Center for Learning Technologies, 1986. **McGraw-Hill's SAT I** Christopher Black, Mark Anestis, 2005-04-21. The only book that gives students the reasoning skills they need to master the new SAT. McGraw Hill's SAT I is the only test preparation guide based on developing a student's reasoning skills the very skills the SAT is designed to measure. Rather than learning by rote students

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