

Name: _____
Date: _____

Math: _____

Unit 6: Similar Triangles
Homework 2: Similar Figures

== This is a 2-page document ==

Directions: Use all congruent angles and write a proportion that relates the corresponding sides.

1. $\triangle FGH \sim \triangle IKJ$



Angles

$$\angle F \cong \angle I$$

$$\angle G \cong \angle K$$

$$\angle H \cong \angle J$$

Sides

$$\frac{FG}{IK} = \frac{GH}{KJ} = \frac{FH}{IJ}$$

Directions: The pairs of polygons below are similar. Give the scale factor of figure A to figure B.

2.



4. If the scale factor of figure A to figure B is 4:5, find the value of x .



3.



$$\frac{10}{6} = \frac{5}{3}$$

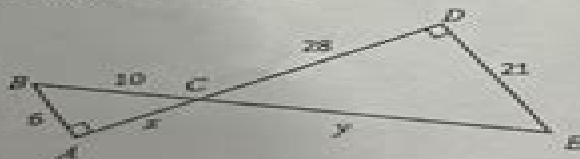
5. If the scale factor of figure A to figure B is 7:2, find the perimeter of figure A.



$$x = 35$$

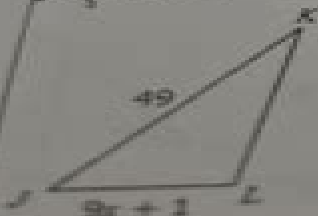
$$p = 122.5$$

6. If $\triangle ABC \sim \triangle DEC$, find the value of x and y .



$$\frac{x}{28} = \frac{6}{21} \quad \frac{21}{21}x = \frac{168}{21} \quad \boxed{x = 8}$$

7. If $\triangle JKL \sim \triangle NMP$, find the value of x .



Answer Key Unit 6 Lesson 4 Geometry

Mike Jess

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

Answer Key Unit 6 Lesson 4 Geometry:

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. Research in Education, 1973 *Getting to the Roots of Mathematics Vocabulary Levels 6-8* Timothy Rasinski, Nancy Padak, 2014-01-01 Expand your students' content area vocabulary and improve their understanding with this roots-based approach. This standards-based resource geared towards secondary grades helps students comprehend informational text on grade-level topics in mathematics using the most common Greek and Latin roots. Each lesson provides tips on how to introduce the selected roots and offers guided instruction to help easily implement the activities. Students will be able to apply their knowledge of roots associated with specific subject areas into their everyday vocabulary. Resources in Education, 1999 *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. Math Phonics - Pre-Geometry Marilyn B. Hein, 2003-03-01 Introduce basic terms and concepts with hands-on projects, wall charts, flash cards, and math art pages. The comprehensive Math Phonics program uses rules, patterns, and memory techniques similar to those found in language arts phonics and provides alternative or supplemental materials to help students understand, learn, appreciate, and enjoy geometry. Also includes word problems and a section on metrics. Math Lesson Starters for the Common Core, Grades 6-8 Paige Graiser, 2014-06-05 The best way to prepare students for the Common Core State Standards in Math is through daily practice. This book provides engaging practical lesson starters you can use each day to help middle school students become proficient in the complex mathematical thinking required by the Common Core. The lesson starters in this book are reproducible and ready to use in the classroom, aligned with the five domains of the Common Core State Standards in Math, written to elicit the type of deep thinking that students need to succeed on the non-traditional PARCC and Smarter Balanced assessments, and powerful formative assessment tools to assist teachers in diagnosing student misconceptions so that daily lessons can be fine-tuned to meet the immediate learning needs of their students. Lesson starters not only aid instruction but also cut back on classroom management problems since students get to work right when the bell rings. This book will help you engage students, save planning time, and bring all students to success in math. **Spectrum Critical Thinking for Math, Grade 1**

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grades 3 5 Study the seven unit planning elements and learn how to incorporate each in essential unit design Review the role of the PLC at Work process in enhancing collaborative student learning and teacher collaboration Observe three model fraction units one for each grade level Receive tools and templates for effective unit planning Contents Introduction by Timothy D Kanold Part 1 Mathematics Unit Planning and Design Elements Chapter 1 Planning for Student Learning of Mathematics in Grades 3 5 Chapter 2 Unit Planning as a Collaborative Mathematics Team Part 2 Fraction Unit Examples Grades 3 5 Chapter 3 Grade 3 Unit Fraction Understanding Chapter 4 Grade 4 Unit Fraction Equivalence Addition and Subtraction Chapter 5 Grade 5 Unit Fraction Addition and Subtraction Epilogue Mathematics Team Organization Appendix A Create a Proficiency Map Appendix B Checklist and Questions for Mathematics Unit Planning References and Resources
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