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Unit 6: Similarity Performance Tasks

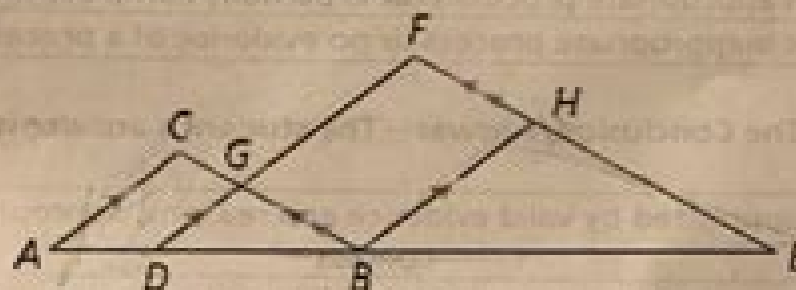
Instructions: Choose one performance task. Write all your work on a separate clean piece of paper and attach it to this page.

Big Idea: Visualization, Reasoning and Proof, and Similarity

You can show that two triangles are similar when certain relationships exist between two or three pairs of corresponding parts. If you know two triangles are similar, then you know their corresponding sides are proportional.

Performance Task 1

In the diagram below, $\overline{AC} \parallel \overline{DF} \parallel \overline{BH}$ and $\overline{CB} \parallel \overline{FE}$.



- Find four similar triangles. Explain how you know that they are similar.
- Using the similar triangles you found in part (a), complete the following extended proportion:

$$\frac{AB}{AC} = \frac{DE}{?} = \frac{?}{DG} = \frac{?}{?}$$

Big Idea: Similarity

Lines with special relationships to the sides and angles of a triangle determine proportional segments. When you know the lengths of some of the segments, you can use a proportion to find an unknown length.

Geometry Unit 6 Performance Task

David Kirk



Geometry Unit 6 Performance Task:

A Leader's Guide to Mathematics Curriculum Topic Study Page Keeley, 2012-05-30 The Curriculum Topic Study CTS process funded by the National Science Foundation helps teachers improve their practice by linking standards and research on how children learn mathematics to classroom practice Keyed to the core book Mathematics Curriculum Topic Study this resource helps maths professional development leaders Academic Language in Diverse Classrooms: Mathematics, Grades 6-8 Margo Gottlieb, Gisela Ernst-Slavit, 2013-05-09 Make every student fluent in the language of learning The Common Core and ELD standards provide pathways to academic success through academic language Using an integrated Curricular Framework districts schools and professional learning communities can Design and implement thematic units for learning Draw from content and language standards to set targets for all students Examine standards centered materials for academic language Collaborate in planning instruction and assessment within and across lessons Consider linguistic and cultural resources of the students Create differentiated content and language objectives Delve deeply into instructional strategies involving academic language Reflect on teaching and learning *Math That Matters* Marian Small, 2019-05-03 In this insightful math resource for grades 3-8 popular professional developer Marian Small helps teachers understand and facilitate meaningful assessments to advance student understandings Small shows new and veteran teachers how to do three fundamental things well identify the most important math to assess construct meaningful assessments both formative and summative to measure student understanding and provide students with feedback that is clear timely and specific Examples for each grade level are provided along with details on how to pose questions analyze errors and help students understand and learn from their mistakes The book provides specific guidance for when and how to offer feedback on both correct and incorrect answers in order to advance students mathematical thinking Like other Marian Small bestsellers Math That Matters combines her special brand of lucid explanation of difficult concepts with fresh and engaging activities Our understanding of the power of assessment to improve learning has deepened significantly in the past two decades Marian Small draws upon the critical research behind this understanding to explain what effective practice looks like It is essential reading for all elementary educators and has the potential to profoundly affect the quality of mathematics assessment in our schools From the Foreword by Damian Cooper president Plan Teach Assess Teachers are often clamoring for concise classroom assessments that can capture students conceptual understanding Clamor no more Math That Matters is a timely response to that need Marian Small removes the mystery of how to engage students in learning while collecting assessment data that drive next instructional plans Karen Karp Johns Hopkins University The beauty of this book is that it is simple enough for brand new teachers and complex enough for experienced teachers The author offers an amazing gift by linking assessment ideas directly to common state standards Felicia Darling Santa Rosa Junior College **AutoCAD 2026 Tutorial First Level 2D Fundamentals** Randy Shih, Designed for users new to CAD Uses step by step tutorials to teach you

2D drawing using AutoCAD Covers the performance tasks found on the AutoCAD 2026 Certified User Examination Includes extensive video instruction The primary goal of AutoCAD 2026 Tutorial First Level 2D Fundamentals is to introduce the aspects of Computer Aided Design and Drafting CADD This text is intended to be used as a training guide for students and professionals This text covers AutoCAD 2026 and the lessons proceed in a pedagogical fashion to guide you from constructing basic shapes to making multiview drawings This textbook contains a series of twelve tutorial style lessons designed to introduce beginning CAD users to AutoCAD 2026 It takes a hands on exercise intensive approach to all the important 2D CAD techniques and concepts This text is also helpful to AutoCAD users upgrading from a previous release of the software The new improvements and key enhancements of the software are incorporated into the lessons The 2D CAD techniques and concepts discussed in this text are also designed to serve as the foundation to the more advanced parametric feature based CAD packages such as Autodesk Inventor The basic premise of this book is that the more designs you create using AutoCAD 2026 the better you learn the software With this in mind each lesson introduces a new set of commands and concepts building on previous lessons This book is intended to help readers establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering Video Training Included with every new copy of AutoCAD 2026 Tutorial First Level 2D Fundamentals is access to extensive video training There are forty six videos with more than five hours of training in total This video training parallels the exercises found in the text and is designed to be watched first before following the instructions in the book However the videos do more than just provide you with click by click instructions Author Luke Jumper also includes a brief discussion of each tool as well as rich insight into why and how the tools are used Luke isn t just telling you what to do he s showing and explaining to you how to go through the exercises while providing clear descriptions of the entire process It s like having him there guiding you through the book These videos will provide you with a wealth of information and bring the text to life They are also an invaluable resource for people who learn best through a visual experience These videos deliver a comprehensive overview of the 2D tools found in AutoCAD and perfectly complement and reinforce the exercises in the book AutoCAD 2026 Certified User Examination The content of AutoCAD 2026 Tutorial First Level 2D Fundamentals covers the performance tasks that have been identified by Autodesk as being included on the AutoCAD 2026 Certified User Examination Special reference guides show you where the performance tasks are covered in the book AutoCAD 2016 Tutorial First Level 2D Fundamentals Randy Shih,2015-05 The primary goal of AutoCAD 2016 Tutorial First Level 2D Fundamentals is to introduce the aspects of Computer Aided Design and Drafting CADD This text is intended to be used as a training guide for students and professionals This text covers AutoCAD 2016 and the lessons proceed in a pedagogical fashion to guide you from constructing basic shapes to making multiview drawings This textbook contains a series of eleven tutorial style lessons designed to introduce beginning CAD users to AutoCAD 2016 It takes a hands on exercise intensive approach to all the important 2D CAD techniques and concepts This text is also helpful to

AutoCAD users upgrading from a previous release of the software The new improvements and key enhancements of the software are incorporated into the lessons The 2D CAD techniques and concepts discussed in this text are also designed to serve as the foundation to the more advanced parametric feature based CAD packages such as Autodesk Inventor The basic premise of this book is that the more designs you create using AutoCAD 2016 the better you learn the software With this in mind each lesson introduces a new set of commands and concepts building on previous lessons This book is intended to help readers establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering

International Handbook of Metacognition and Learning Technologies Roger Azevedo,Vincent Alevén,2013-04-23

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researchers and industrial and other instructors *Mathematics Technical Report* National Assessment of Educational Progress (Project),National Assessment of Educational Progress (Project).,1976 *Fault Diagnosis and Prognostics Based on Cognitive Computing and Geometric Space Transformation* Chen Lu,Laifa Tao,Jian Ma,Yujie Cheng,Yu Ding,2025-01-02

This monograph introduces readers to new theories and methods applying cognitive computing and geometric space transformation to the field of fault diagnosis and prognostics It summarizes the basic concepts and technical aspects of fault diagnosis and prognostics technology Existing bottleneck problems are examined and the advantages of applying cognitive computing and geometric space transformation are explained In turn the book highlights fault diagnosis prognostic and health assessment technologies based on cognitive computing methods including deep learning transfer learning visual

cognition and compressed sensing Lastly it covers technologies based on differential geometry space transformation and pattern recognition *Houghton Mifflin Math Central: Student text* ,1998 *Recovery System Design Guide* E. G. Ewing,H. W. Bixby,T. W. Knacke,Irvin Industries Inc. California Division,1979 This document serves as the third revision of the USAF Parachute Handbook which was first published in 1951 The data and information represent the current state of the art relative to recovery system design and development The initial chapters describe representative recovery applications components subsystems material manufacture and testing The final chapters provide empirical data and analytical methods useful for predicting performance and presenting a definitive design of selected components into a reliable recovery system

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