



Pythagorean Theorem

Lesson Synopsis:

In this lesson, students model the Pythagorean Theorem concretely using area models while making connections to algebra. In addition, students explore Pythagorean triples by constructing triangles and explore the relationships between ratios, similar triangles, and the Pythagorean Theorem. Students apply the Pythagorean Theorem and Pythagorean triples in real-world contexts to solve problems.

TEKS:

- G.2 Geometric attributes: The student analyzes geometric relationships in order to make and justify conjectures.
- G.2B Make conjectures about angles, lines, polygons, circles, and three-dimensional figures and determine the validity of the conjectures, reasoning from a variety of approaches such as coordinate, transformational, or axiomatic.
- G.3 Geometric patterns: The student uses a variety of representations to describe geometric relationships and solve problems.
- G.3B Use inductive and geometric patterns to make generalizations about geometric properties, including properties of polygons, ratios in similar figures and solids, and angle relationships in polygons and solids.
- G.3C Identify and apply patterns from right triangles to solve measurement problems, including special right triangles (45-45-90 and 30-60-90) and triangles whose sides are Pythagorean triples.
- G.4 Congruence and the geometry of size: The student uses tools to determine measurements of geometric figures and deduce measurement concepts to find perimeter, area, and volume in problem situations.
- G.4C Define, extend, and use the Pythagorean Theorem.
- G.5 Similarity and the geometry of shape: The student applies the concepts of similarity to justify properties of figures and solve problems.
- G.5C Develop, apply, and justify triangle similarity relationships, such as right triangle ratios, trigonometric ratios, and Pythagorean triples using a variety of methods.

Getting Ready for Instruction

Performance Indicator(s):

- Analyze patterns to derive and make conjectures about the Pythagorean Theorem and Pythagorean Triples. Rely on both to identify right triangles and find missing side lengths in right triangles. (G.2B) (G.3A, G.3B, G.3C, G.3E); (G.11C)
GLEB (LPB); 1B, 1A, 2B, 2C, 3A, 4F, 5C

Key Understandings and Guiding Questions:

- The Pythagorean Theorem, its converse, and Pythagorean Triples can be used to identify right triangles and calculate the measurements of their sides.
 - How is similarity used to generate Pythagorean triples?
 - How can the converse of the Pythagorean Theorem be used to classify triangles by angles?
 - How can Pythagorean triples be used to solve right triangles?

Vocabulary of Instruction:

- | | | |
|-----------------------|-------------------------|----------------------|
| • Pythagorean Theorem | • leg of right triangle | • Pythagorean triple |
| • right triangle | • hypotenuse | |

Materials:

- | | | |
|-----------------------|-------------------|--------------|
| • transparency marker | • colored pencils | • grid paper |
| • grid paper | • calculator | |

Geometry Hs Mathematics Unit 4 Lesson 01

Didier Musso



Geometry Hs Mathematics Unit 4 Lesson 01:

Resources in Education ,2001 *Research in Education* ,1974 Teaching and Learning High School Mathematics
Charlene E. Beckmann,Denisse R. Thompson,Rheta N. Rubenstein,2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

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Teaching Secondary and Middle School Mathematics Daniel J.

Brahier,2024-01-22 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The seventh edition has been updated and expanded with particular emphasis on the latest technology standards and other resources The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include Following on from the sixth edition assessment takes a central role in planning and teaching Unit 3 of 5 addresses the use of summative and formative assessments to inform classroom teaching practices A new appendix is included that lists websites that can be used in a methods class to view other teachers interacting with students for discussion of effective teaching practices The feature entitled Links and Resources has been updated in each of the 13 chapters Five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics Significant revisions have been made to Chapter 12 which now includes updated research and practices as well as a discussion on culturally responsive pedagogy Likewise Chapter 8 now includes a description of best and high leverage teaching practices and a discussion in Chapter 11 on alternative high school mathematics electives for students has been added Chapter 9 on the practical use of classroom technology has again been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices in light of changes in education resulting from the global pandemic An updated Instructor s Manual features a test bank sample classroom activities PowerPoint slide content chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com 9781032472867

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