



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 classifying 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 (30-60-90 and 45-45-90) 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.5C); (G.11C)
- GLEs:** L.P.1, 1B, 1H, 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 5 Lesson Tesccc 10

Charles Shields



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Geometry Basics, Grades 5 - 8 Schyrlet Cameron, Carolyn Craig, 2016-01-04 Geometry Basics for grades 5 to 8 targets the basic geometry concepts students need to understand and perform operations involved in higher level math In this standards based series students are given practice with lines angles circles perimeter area volume two dimensional figures and three dimensional figures Mark Twain Media Publishing Company specializes in providing engaging supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators this product line covers a range of subjects including math science language arts social studies history government fine arts and character

Geometry Unit 5 (RES) Responsive Education Solutions Staff, 2012-08-01 Students build on the foundational concepts as presented in Grades K 8 expanding their understanding through other mathematical experiences Geometric thinking and spatial reasoning play a critical role in geometry Geometric figures provide ways to represent mathematical situations and to express generalizations about space and spatial relationships Students use geometric thinking to understand mathematical concepts and the relationships among them Geometry consists of the study of geometric figures of zero one two and three dimensions and the relationships among them Students study properties and relationships having to do with size shape location direction and orientation of these figures Geometry can be used to model and represent many mathematical and real world situations Students perceive the connection between geometry and the real and mathematical worlds and use geometric ideas relationships and properties to solve problems Students use concrete pictorial numerical symbolic graphical and verbal tools and technology to solve meaningful problems by representing and transforming figures and analyzing relationships This course applies a connection integration and applications approach Students will relate and apply geometric concepts to algebra statistics data analysis and probability A connection is made to other courses such as biology history art etc with problems that involve many of the geometric concepts and encourage the use of technology How to Succeed in Geometry, Grades 5-8 Charles Shields, 2000-10

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