



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 automatic.
- G.3 Geometric patterns: The student uses a variety of representations to describe geometric relationships and solve problems.
- G.3B Use algebraic 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.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 Lesson 01

Wenbin Ji



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Table of Contents Geometry Hs Mathematics Unit Lesson 01

1. Understanding the eBook Geometry Hs Mathematics Unit Lesson 01
 - The Rise of Digital Reading Geometry Hs Mathematics Unit Lesson 01
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Hs Mathematics Unit Lesson 01
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometry Hs Mathematics Unit Lesson 01
 - User-Friendly Interface

4. Exploring eBook Recommendations from Geometry Hs Mathematics Unit Lesson 01
 - Personalized Recommendations
 - Geometry Hs Mathematics Unit Lesson 01 User Reviews and Ratings
 - Geometry Hs Mathematics Unit Lesson 01 and Bestseller Lists
5. Accessing Geometry Hs Mathematics Unit Lesson 01 Free and Paid eBooks
 - Geometry Hs Mathematics Unit Lesson 01 Public Domain eBooks
 - Geometry Hs Mathematics Unit Lesson 01 eBook Subscription Services
 - Geometry Hs Mathematics Unit Lesson 01 Budget-Friendly Options
6. Navigating Geometry Hs Mathematics Unit Lesson 01 eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Hs Mathematics Unit Lesson 01 Compatibility with Devices
 - Geometry Hs Mathematics Unit Lesson 01 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Hs Mathematics Unit Lesson 01
 - Highlighting and Note-Taking Geometry Hs Mathematics Unit Lesson 01
 - Interactive Elements Geometry Hs Mathematics Unit Lesson 01
8. Staying Engaged with Geometry Hs Mathematics Unit Lesson 01
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Hs Mathematics Unit Lesson 01
9. Balancing eBooks and Physical Books Geometry Hs Mathematics Unit Lesson 01
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Hs Mathematics Unit Lesson 01
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geometry Hs Mathematics Unit Lesson 01
 - Setting Reading Goals Geometry Hs Mathematics Unit Lesson 01
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Geometry Hs Mathematics Unit Lesson 01
 - Fact-Checking eBook Content of Geometry Hs Mathematics Unit Lesson 01
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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