

Applying Special Right Triangles... Lesson 5.8

Date:

Objectives:

1. Justify and apply properties of 45-45-90 triangles. 2. Justify and apply properties of 30-60-90 triangles.
State Standard: Apply properties of 30-60-90 and 45-45-90 to determine side lengths of triangles.

Important to note: The information contained in this lesson is AFAMC!
It is also a tool to use on the ACT to answer questions faster.

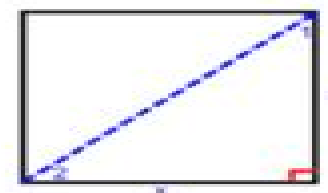
In this lesson we will discover two types of triangles. We will begin with a 45-45-90 triangle. The 45, 45, and 90 means the _____ measures of the triangle you are working with!

If you have a 45-45-90 triangle, what specific type of triangle do you have - classified by sides and angles?

To discover the 45-45-90 triangle... think about a square with side lengths of x .

The diagonal of a square divides the square into two congruent isosceles right triangles.

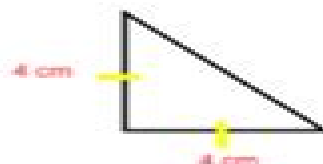
What is the angle measurement of $\angle 1$ and $\angle 2$?



Use the Pythagorean Theorem to find the length of the hypotenuse.

Instead of using x for the side length use 4 cm.

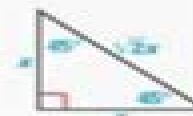
Use Pythagorean Theorem to find the length of the hypotenuse.



THEOREMS ABOUT SPECIAL RIGHT TRIANGLES

45°-45°-90° Triangle Theorem

In a 45°-45°-90° triangle, the hypotenuse is $\sqrt{2}$ times as long as each leg.



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Popular educator



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Merrill Informal Geometry: Teacher annotated ed Jerry Cummins, 1988 **Eureka Math Grade 8 Study Guide** Great Minds, 2016-05-16 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 8 provides an overview of all of the Grade 8 modules including Integer Exponents and Scientific Notation The Concept of Congruence Similarity Linear Equations Examples of Functions from Geometry Linear Functions Introduction to Irrational Numbers Using Geometry **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 **Measures, Shape and Space** David Clemson, Wendy Clemson, 2002 Maths Action Plans is a series of four books for Years 4 6 P5 7 offering flexible supportive teacher and pupil resources and coherent coverage of the five strands of the Framework for Teaching Mathematics The series provides inspiring flexible activities that can be fitted into any maths scheme Each title contains clear learning

objectives linked to the Framework for Teaching Maths the National Curriculum Programme of Study and the 5 14 National Guidelines for Mathematics lesson plans with up to three levels of differentiation supplementary activities for consolidation or linked work and suggestions for the application of ICT skills New York Math: Math A ,2000 *Math Advantage, Grade 8* Grace M. Burton,Harcourt Brace,1998-05-22 Geometry Ron Larson,1995 Resources in Education ,1983 *Teaching Secondary School Mathematics* Alfred S. Posamentier,Jay Stepelman,1999 Resource for inservice and pre service mathematics teachers The text discusses methods of teaching the subject and provides a collection of enrichment units to enhance the curriculum *Standard Service Geometry Work-book* Herbert David Welte,Frederic Butterfield Knight,1929 Scott Foresman-Addison Wesley Middle School Math ,2002 Glencoe Mathematics William Collins,1999 The Athenaeum ,1846 **Journal of Education** ,1882 The Popular Educator ,1854 **The popular educator** Popular educator,1852 The Illustrated London News ,1858 **The Athenæum** ,1846 *Railroad Gazette* ,1873 **New England Journal of Education** Thomas Williams Bicknell,Albert Edward Winship,Anson Wood Belding,1879

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