

Special Right Triangles Answer Key

Name ANSWER KEY Date _____ Block _____

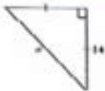
Two Special Right Triangles HOMEWORK

Show work for full credit.

Give your answers in exact form unless otherwise indicated.
All measurements are in centimeters.

In Exercises 1-3, find the unknown lengths.

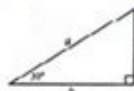
1. $a = 14\sqrt{2}$ cm



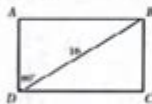
2. $a = 12$ cm, $b = 24$ cm



3. $a = 12$ cm, $b = 6\sqrt{3}$ cm

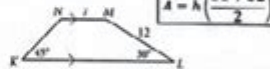


4. Find the area of rectangle ABCD.



$A = 64\sqrt{3}$ cm²

5. Find the perimeter and area of KLMN.



$A = h \left(\frac{b_1 + b_2}{2} \right)$

$P = 32 + 6\sqrt{2} + 6\sqrt{3}$ cm

$A = 60 + 18\sqrt{3}$ cm²

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Special Right Triangles Answer Key: Mastering 30-60-90 and 45-45-90 Triangles

Are you struggling with special right triangles? Finding the right answers can feel like navigating a maze, especially when you're dealing with the 30-60-90 and 45-45-90 triangles. This comprehensive guide provides not just a simple "special right triangles answer key," but a deep understanding of these essential geometric shapes. We'll break down the key concepts, provide example problems with solutions, and equip you with the tools to confidently solve any special right triangle problem you encounter. Get ready to master these triangles!

Understanding Special Right Triangles: The Foundation

Before diving into specific examples and answer keys, let's solidify the foundation. Special right triangles are right-angled triangles with specific angle measures and side ratios. Understanding these ratios is the key to unlocking their solutions.

The 45-45-90 Triangle (Isosceles Right Triangle)

This triangle has two equal angles (45 degrees each) and one right angle (90 degrees). The ratio of its sides is always $1:1:\sqrt{2}$. This means that if the two legs (the sides adjacent to the right angle) have length 'x', the hypotenuse (the side opposite the right angle) will have length $x\sqrt{2}$.

Key Formula: 45-45-90 Triangle

Leg = x

Leg = x

Hypotenuse = $x\sqrt{2}$

The 30-60-90 Triangle

This triangle has angles of 30, 60, and 90 degrees. Its side ratios are $1:\sqrt{3}:2$. If the side opposite the 30-degree angle (the shorter leg) has length 'x', then the side opposite the 60-degree angle (the longer leg) will have length $x\sqrt{3}$, and the hypotenuse will have length $2x$.

Key Formula: 30-60-90 Triangle

Short Leg (opposite 30°): x

Long Leg (opposite 60°): $x\sqrt{3}$

Hypotenuse: $2x$

Solving Special Right Triangles: Step-by-Step Examples

Let's work through some examples to illustrate how to use these ratios to find missing side lengths. Consider this as your "special right triangles answer key" in action.

Example 1: 45-45-90 Triangle

A 45-45-90 triangle has a leg of length 5 cm. Find the length of the hypotenuse.

Solution:

Since the ratio of legs to hypotenuse is $1:1:\sqrt{2}$, and we know one leg is 5 cm, the hypotenuse is $5\sqrt{2}$ cm.

Example 2: 30-60-90 Triangle

A 30-60-90 triangle has a hypotenuse of length 10 cm. Find the lengths of the other two sides.

Solution:

The ratio is $1:\sqrt{3}:2$. Since the hypotenuse is $2x$ and is 10 cm, x (the short leg) is 5 cm. The long leg is $x\sqrt{3}$, which is $5\sqrt{3}$ cm.

Example 3: Advanced Problem - 30-60-90 Triangle

The longer leg of a 30-60-90 triangle measures $6\sqrt{3}$ cm. Find the length of the shorter leg and the hypotenuse.

Solution:

We know the long leg (opposite 60°) is $x\sqrt{3} = 6\sqrt{3}$ cm. Therefore, x (the short leg) = 6 cm. The hypotenuse is $2x = 12$ cm.

Troubleshooting Common Mistakes

Many students struggle with simplifying radicals (like $\sqrt{2}$ and $\sqrt{3}$). Remember to simplify them whenever possible. For example, $\sqrt{8}$ can be simplified to $2\sqrt{2}$. Also, be mindful of which side is opposite which angle. Always carefully label your diagram.

Conclusion: Mastering Your Special Right Triangles

By understanding the fundamental ratios of 45-45-90 and 30-60-90 triangles and practicing with examples, you'll develop a solid grasp of solving these types of problems. Remember to utilize the provided formulas and carefully analyze the given information to determine the correct approach.

With consistent practice, you'll find that solving special right triangles becomes second nature.

Frequently Asked Questions (FAQs)

1. Why are these triangles called "special"? They're called special because their consistent angle ratios allow for quick and easy calculations of side lengths without the need for complex trigonometric functions like sine, cosine, or tangent.
2. Can I use the Pythagorean Theorem with special right triangles? Yes, absolutely! The Pythagorean Theorem ($a^2 + b^2 = c^2$) still applies. However, the special ratios provide a more efficient method for solving these specific triangles.
3. What if I'm given the area of a special right triangle? You can use the area formula ($\frac{1}{2}$ base height) along with the special triangle ratios to solve for the side lengths.
4. Are there other types of special right triangles? While 45-45-90 and 30-60-90 are the most commonly encountered, other triangles with specific angle and side relationships exist in more advanced geometry.
5. Where can I find more practice problems? Numerous online resources and textbooks offer practice problems on special right triangles. Search for "special right triangle practice problems" to find suitable materials.

special right triangles answer key: Elementary College Geometry Henry Africk, 2004

special right triangles answer key: Precalculus Jay P. Abramson, Valeree Falduto, Rachael Gross (Mathematics teacher), David Lippman, Melonie Rasmussen, Rick Norwood, Nicholas Belloit, Jean-Marie Magnier, Harold Whipple, Christina Fernandez, 2014-10-23 Precalculus is intended for college-level precalculus students. Since precalculus courses vary from one institution to the next, we have attempted to meet the needs of as broad an audience as possible, including all of the content that might be covered in any particular course. The result is a comprehensive book that covers more ground than an instructor could likely cover in a typical one- or two-semester course; but instructors should find, almost without fail, that the topics they wish to include in their syllabus are covered in the text. Many chapters of OpenStax College Precalculus are suitable for other freshman and sophomore math courses such as College Algebra and Trigonometry; however, instructors of those courses might need to supplement or adjust the material. OpenStax will also be releasing College Algebra and Algebra and trigonometry titles tailored to the particular scope, sequence, and pedagogy of those courses.--Preface.

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special right triangles answer key: Common Core Geometry Kirk Weiler, 2018-04

special right triangles answer key: **CK-12 Calculus** CK-12 Foundation, 2010-08-15 CK-12 Foundation's Single Variable Calculus FlexBook introduces high school students to the topics covered in the Calculus AB course. Topics include: Limits, Derivatives, and Integration.

special right triangles answer key: Algebra and Trigonometry Jay P. Abramson, Valeree Falduto, Rachael Gross (Mathematics teacher), David Lippman, Rick Norwood, Melonie Rasmussen, Nicholas Belloit, Jean-Marie Magnier, Harold Whipple, Christina Fernandez, 2015-02-13 The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs.--Page 1.

special right triangles answer key: **Trigonometry For Dummies** Mary Jane Sterling, 2014-02-06 A plain-English guide to the basics of trig Trigonometry deals with the relationship between the sides and angles of triangles... mostly right triangles. In practical use, trigonometry is a friend to astronomers who use triangulation to measure the distance between stars. Trig also has applications in fields as broad as financial analysis, music theory, biology, medical imaging, cryptology, game development, and seismology. From sines and cosines to logarithms, conic sections, and polynomials, this friendly guide takes the torture out of trigonometry, explaining basic concepts in plain English and offering lots of easy-to-grasp example problems. It also explains the why of trigonometry, using real-world examples that illustrate the value of trigonometry in a variety of careers. Tracks to a typical Trigonometry course at the high school or college level Packed with example trig problems From the author of Trigonometry Workbook For Dummies Trigonometry For Dummies is for any student who needs an introduction to, or better understanding of, high-school to college-level trigonometry.

special right triangles answer key: Prealgebra 2e Lynn Marecek, Maryanne Anthony-Smith, Andrea Honeycutt Mathis, 2020-03-11 The images in this book are in color. For a less-expensive grayscale paperback version, see ISBN 9781680923254. Prealgebra 2e is designed to meet scope and sequence requirements for a one-semester prealgebra course. The text introduces the fundamental concepts of algebra while addressing the needs of students with diverse backgrounds and learning styles. Each topic builds upon previously developed material to demonstrate the cohesiveness and structure of mathematics. Students who are taking basic mathematics and prealgebra classes in college present a unique set of challenges. Many students in these classes have been unsuccessful in their prior math classes. They may think they know some math, but their core knowledge is full of holes. Furthermore, these students need to learn much more than the course content. They need to learn study skills, time management, and how to deal with math anxiety. Some students lack basic reading and arithmetic skills. The organization of Prealgebra makes it easy to adapt the book to suit a variety of course syllabi.

special right triangles answer key: **Intro to Geometry** Mary Lee Vivian, Tammy Bohn-Voepel, Margaret Thomas, 2003 A top-selling teacher resource line The 100+ Series(TM) features over 100 reproducible activities in each book! Intro to Geometry links all the activities to the NCTM Standards and is designed to provide students with practice in the skill areas required

special right triangles answer key: SAT Math Workbook Reza Nazari, 2021-06-23 The BEST Workbook to help you ACE the SAT Math Test! SAT Math Workbook 2020 - 2021, which reflects the 2020 - 2021 test guidelines and topics, provides students with the confidence and math skills they need to succeed on the SAT Math, offering a solid foundation of Math topics with abundant exercises for each topic. It is designed to address the needs of SAT test takers who must have a working knowledge of basic Math. This comprehensive workbook with over 2,500 sample questions and 2 full-length SAT Math tests is all you need to fully prepare for the SAT Math. It will help you learn everything you need to ace the SAT Math test. This SAT Math workbook's new edition has been updated to replicate questions appearing on the most recent SAT math tests. Upon completion of this workbook, you will have a solid foundation and sufficient practice to ace the SAT Math test. This workbook is your ticket to scoring higher on SAT Math. Inside the pages of this comprehensive SAT

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special right triangles answer key: Geometry Common Core Randall Inners Charles, 2012

special right triangles answer key: Which One Doesn't Belong? Christopher Danielson, 2019-02-12 Talking math with your child is simple and even entertaining with this better approach to shapes! Written by a celebrated math educator, this innovative inquiry encourages critical thinking and sparks memorable mathematical conversations. Children and their parents answer the same question about each set of four shapes: Which one doesn't belong? There's no one right answer--the important thing is to have a reason why. Kids might describe the shapes as squished, smooshed, dented, or even goofy. But when they justify their thinking, they're talking math! Winner of the Mathical Book Prize for books that inspire children to see math all around them. This is one shape book that will both challenge readers' thinking and encourage them to think outside the box.--Kirkus Reviews, STARRED review

special right triangles answer key: SAT Math for Beginners Reza Nazari, 2021-06-20 SAT test taker's #1 Choice! Recommended by Test Prep Experts! The perfect guide for students of every level, SAT Math for Beginners will help you incorporate the most effective methods and all the right strategies to get ready for your SAT Math test! This up-to-date guide reflects the 2023 test guidelines and will set you on the right track to hone your math skills, overcome exam anxiety, and boost your confidence. Are you ready to ace the SAT Math test? SAT Math for Beginners creates confident, knowledgeable students that have all the skills they need to succeed on the SAT. It builds a solid foundation of mathematical concepts through easy-to-understand lessons and basic study guides. Not only does this all-inclusive workbook offer everything you will ever need to conquer the

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special right triangles answer key: CliffsNotes ASVAB AFQT Cram Plan 2nd Edition Pat Proctor, Carolyn C. Wheeler, Jane R. Burstein, 2019 Proctor, Wheeler and Burstein have a plan to help you ace the Armed Services Vocational Battery (ASVAB) Armed Forces Qualifying Test (AFQT) exam -- whether you have two months, one month or one week left to prepare. They provide week-by-week and day-by-day schedules of the best ways to focus your study according to your unique timeline. And the plan includes a diagnostic test, review of subject areas, and a practice exam, so you can make the most of the time you have left. -- adapted from back cover

special right triangles answer key: 432 Math Questions for the SAT with Solutions Michael Suppe, 2008-06-01 432 Math Questions for the SAT with Solutions is designed for use with The College Board's Official SAT Study Guide. This book contains eight realistic practice Math tests with fully detailed solutions. Each question was specifically designed to match questions previously released by the College Board.

special right triangles answer key: The Pythagorean Theorem Eli Maor, 2019-11-19
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special right triangles answer key: TI-Nspire Strategies Aimee L. Evans, Pamela H. Dase, 2008-10-01 Maximize student use of the TI-Nspire while processing and learning geometric concepts with lessons that delve into the five environments of the TI-Nspire including: calculator, graphs and geometry, lists and spreadsheets, notes, and data analysis. Also included are practice pages to prepare students for testing situations that allow the use graphing calculators or handhelds as well as student guides on the Teacher Resource CD files to support English language learners.

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special right triangles answer key: CliffsNotes ASVAB AFQT Cram Plan Jane R. Burstein, Carolyn C. Wheeler, Pat Proctor, 2011-08-02 Get a plan to ace the exam—and make the most of the time you have left. Whether you have two months, one month, or even just a week left before the exam, you can turn to the experts at CliffsNotes for a trusted and achievable cram plan to ace the ASVAB AFQT—without ever breaking a sweat! First, you'll determine exactly how much time you have left to prepare for the exam. Then, you'll turn to the two-month, one-month, or one-week cram plan for week-by-week and day-by-day schedules of the best way to focus your study according to your unique timeline. Each stand-alone plan includes: Diagnostic test—helps you pinpoint your strengths and weaknesses so you can focus your review on the topics in which you need the most help Subject reviews—cover everything you can expect on the actual exam: arithmetic reasoning, word knowledge, paragraph comprehension, and mathematics knowledge Full-length practice test with answers and detailed explanations—a simulated ASVAB AFQT exam with scoring guide gives you an authentic test-taking experience Test-prep essentials from the experts at CliffsNotes

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special right triangles answer key: Acing the New SAT I Math, 2004-09 Acing the New SAT I Math is a test prep guide for the math sections of the new SAT I. The book takes a learning

fundamentals approach that sets it apart from other SAT materials. Written by a test prep teacher of ten years, *Acing* focuses on solid teaching and practice, to help students master all the skills they need for the SAT I math. The book covers all the math topics found on the new SAT I, organized by subject into twenty chapters. Each chapter contains a tutorial, exercise set, and solutions. Three full-length practice tests are provided at the end of the book. Because *Acings* emphasis is learning and mastering math concepts, the book includes 500+ practice problems (not including example problems or practice tests) more than are found in other test prep books. It also includes the most detailed solutions guides on the market, taking students step-by-step through each problem to help them identify their mistakes and hone their skills. *Acing* also seeks to eliminate the wordiness found in most other test prep books, employing a 2-column format in the tutorials. Key terms and illustrations in the left-hand column present the math concepts as clearly and concisely as possible. Example problems in the right-hand column enable students to simultaneously learn the application of these concepts. In all areas, *Acing* is designed with an emphasis on clear and direct teaching, and with the belief that practice is the best preparation for any exam, including a standardized test like the SAT. Skipping the tricks and gimmicks, *Acing* stands apart from all the other test prep guides on the market. The book is also written to be a stand-alone resource, so students can prepare for the SAT and PSAT on their own, independent of outside instruction.

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special right triangles answer key: *Euclid's Elements* Euclid, Dana Densmore, 2002 The book includes introductions, terminology and biographical notes, bibliography, and an index and glossary --from book jacket.

special right triangles answer key: *ACT Or SAT?* Josh Bornstein, 2009 Provides information on the content, structure, and scoring of both tests; discusses their similarities and differences; and presents a diagnostic tool designed to determine which test a given student will do better on.

special right triangles answer key: *Helping Children Learn Mathematics* National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Mathematics Learning Study Committee, 2002-07-31 Results from national and international assessments indicate that school children in the United States are not learning mathematics well enough. Many students cannot correctly apply computational algorithms to solve problems. Their understanding and use of decimals and fractions are especially weak. Indeed, helping all children succeed in mathematics is an imperative national goal. However, for our youth to succeed, we need

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exceptional. Think of especial in relation to its corresponding adverb, especially.

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SPECIAL () - Cambridge Dictionary

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