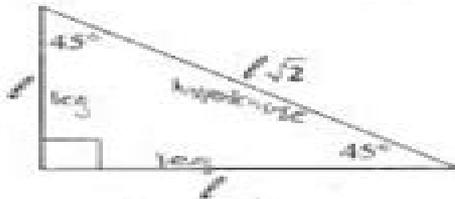


Essential Question: How do I relate this concept to real life?

Learning Targets: Students will be able to...

- 3.A.1: evaluate trigonometric functions of acute angles (including special right triangles)
- 3.A.2: use the fundamental trigonometric identities
- 3.A.3: use a calculator to evaluate trigonometric functions
- 3.A.4: use trigonometric functions to model and solve real-life problems

Concept 1: SPECIAL RIGHT TRIANGLES



Ex 1) Solve for the missing sides.

a)

$2s = 8$
 $s = 4$

$4\sqrt{3}$

b)

$2\sqrt{2} = 6$
 $\sqrt{2} = 3$

$3\sqrt{2}$

c)

$2\sqrt{3} = 10$
 $\sqrt{3} = 5$

$5\sqrt{3}$

Concept 2: USE ONE TRIG FUNCTION TO FIND ANOTHER

If $\cos A = \frac{2}{5}$, find the value of $\tan A$.

$\tan A = \frac{\sqrt{21}}{2}$

$x^2 + 2^2 = 5^2$
 $x^2 + 4 = 25$
 $x^2 = 21$
 $x = \sqrt{21}$



Ex 2) You Try! Use right triangle trigonometry to find all the parts of the right triangle given the following:

$\angle B = 58^\circ$

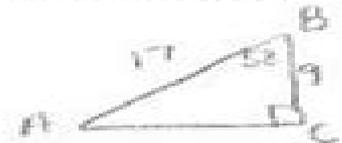
$\sin A = \frac{9}{17}$

$17 \cdot \sin 58 = \frac{b}{17} \cdot 17$

$14.4 = b$

$\angle A = \sin^{-1}(\frac{9}{17})$

$\angle A = 32^\circ$



$\angle C$ must $\rightarrow c = 17$ units
 $\angle C = 90^\circ$
 $\angle A + \angle B = 58^\circ$ $a = 9$ units
and $a = c$

Lesson 5 8 Applying Special Right Triangles Answer Key

Nicholas Henderson



Lesson 5 8 Applying Special Right Triangles Answer Key:

Standard Service Geometry Work-book Herbert David Welte, Frederic Butterfield Knight, 1929 **Geometry, Grade 6** Spectrum, 2013-12-02 New to the Spectrum R series Geometry is a skill specific math resource designed to completely support and challenge sixth graders in geometry This 96 page book goes into greater depth about geometry and provides a wide range of examples practice problems and assessments to measure progress The best selling Spectrum R series now provides students with focused practice based on the essential skills they need to master for Common Core success With explicit skill instruction step by step examples and ample practice as well as assessment tools for progress monitoring students are provided everything they need to master specific math skills Skill specific Spectrum R books are the perfect supplement for home or school **The Pearson Complete Guide to the SAT** Nicholas Henderson, 2012

Mathematical Connections, 2000-03-15 *Geometry* Nichols, 1991 A high school textbook presenting the fundamentals of geometry **The Educational reporter (and science teachers' review)**. , 1869 The popular educator Popular educator, 1860 **The Freemason and Masonic Illustrated. A Weekly Record of Progress in Freemasonry** , 1884 El-Hi Textbooks & Serials in Print Bowker Editorial Staff, 2004-02 The Journal of Education for Ontario , 1872 *The Popular Educator* , 1854 **American Machinist** , 1890 Houghton Mifflin Mathematics , 2000-09 *Building World* , 1907 *English Mechanic and Mirror of Science* , 1908 *Essentials of Precalculus, Algebra and Trigonometry* Dennis T. Christy, 1993 Congressional Record United States. Congress, 1974 Comfort , 1899 **Ladies' Home Companion** , 1909 **Geometry for Christian Schools** Kathy D. Pilger, Ron Tagliapietra, 1999 The colorful student text presents concepts with numerous examples and step by step explanations At the end of each exercise set is a systematic cumulative review Just as model cars represent key features of real cars geometry represents key features of God's creation Model cars represent the shape and scale of real cars even though they are too small to be used for transportation Likewise geometry shows the relationships among measurements such as lengths and areas as well as the reasons for such relationships Thus geometry is a mathematical model Publisher

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