

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)
 $s = 4$
 $2s = 8 \Rightarrow s = 4$
 $4\sqrt{3}$

b)
 $r = 3\sqrt{3}$
 $2r = 6 \Rightarrow r = 3$
 $3\sqrt{3}$

c)
 $r = 5\sqrt{3}$
 $2r = 10 \Rightarrow r = 5$
 $5\sqrt{3}$

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:

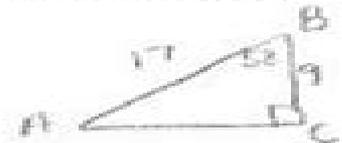
$\angle B = 58^\circ$

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

$17 \cdot \sin 58 = \frac{b}{17} \Rightarrow 14.4 = b$

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

$\angle A = 32^\circ$



$\angle C$ must be 90°
 $\angle C = 90^\circ$
 $\angle A + \angle B = 90^\circ$
 $\angle A = 32^\circ$
 $\angle B = 58^\circ$
 $a = 9$ units
 $b = 14.4$
 $c = 17$ units

Lesson 5 8 Applying Special Right Triangles Answer Key

S Marginson



Lesson 5 8 Applying Special Right Triangles Answer Key:

Decoding **Lesson 5 8 Applying Special Right Triangles Answer Key**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lesson 5 8 Applying Special Right Triangles Answer Key**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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