

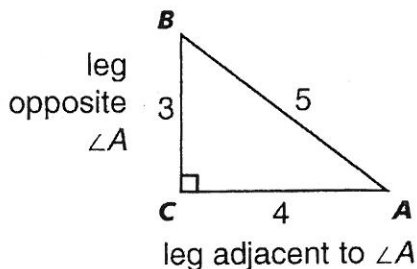
Remember

A trigonometric ratio is a ratio between two sides of a right triangle. *Sine*, *cosine*, and *tangent* are the three basic ratios. They are abbreviated as *sin*, *cos*, and *tan*. The made-up name "soh cah toa" can help you memorize the three basic ratios.

$$\sin = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan = \frac{\text{opposite}}{\text{adjacent}}$$



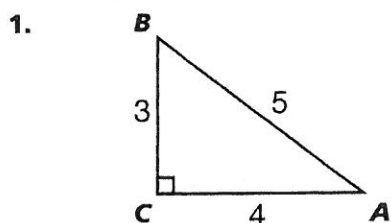
$$\sin A = \frac{\text{opp.}}{\text{hyp.}} = \frac{3}{5}$$

$$\cos A = \frac{\text{adj.}}{\text{hyp.}} = \frac{4}{5}$$

$$\tan A = \frac{\text{opp.}}{\text{adj.}} = \frac{3}{4}$$



Draw straight lines to match each trigonometric ratio to its value. The uncrossed words will reveal a message.



$\sin B \bullet$

You're

$\bullet \frac{\text{adj.}}{\text{hyp.}} = \frac{3}{5}$

$\cos B \bullet$

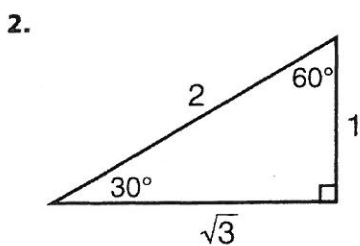
Get

$\bullet \frac{\text{opp.}}{\text{adj.}} = \frac{4}{3}$

$\tan B \bullet$

You

$\bullet \frac{\text{opp.}}{\text{hyp.}} = \frac{4}{5}$



$\sin 30^\circ \bullet$

need

$\bullet \frac{\sqrt{3}}{2}$

$\sin 60^\circ \bullet$

a

$\bullet \frac{\sqrt{3}}{1} = \sqrt{3}$

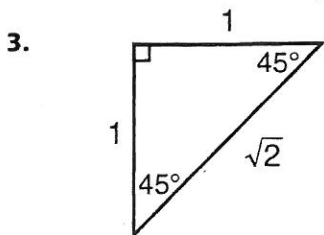
$\tan 30^\circ \bullet$

great

$\bullet \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$

$\tan 60^\circ \bullet$

$\bullet \frac{1}{2}$



$\cos 45^\circ \bullet$

trig

$\bullet \frac{\text{opp.}}{\text{hyp.}} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$

$\tan 45^\circ \bullet$

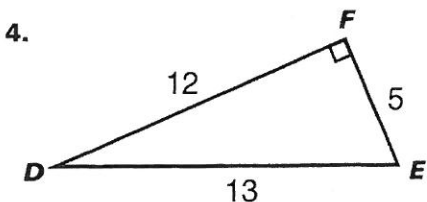
help

$\bullet \frac{\text{adj.}}{\text{hyp.}} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$

$\sin 45^\circ \bullet$

math

$\bullet \frac{1}{1} = 1$



$\tan D \bullet$

$\bullet \frac{12}{13}$

$\tan E \bullet$

student!

$\bullet \frac{12}{5}$

$\cos D \bullet$

expert!

$\bullet \frac{5}{12}$

Name : _____

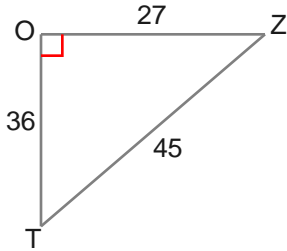
Score : _____

Teacher : _____

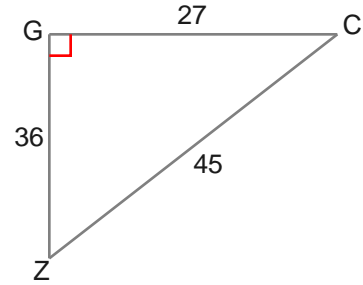
Date : _____

Trigonometric Ratios

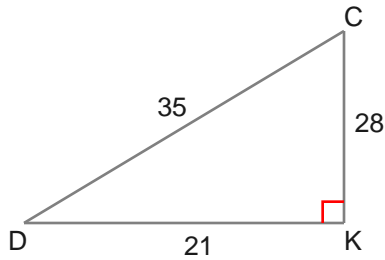
1) $\sin Z = \underline{\hspace{2cm}}$



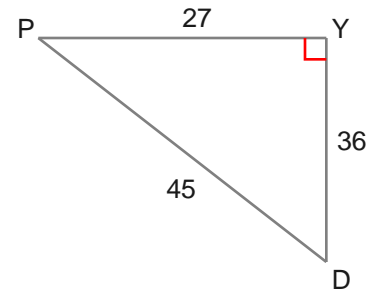
2) $\sin Z = \underline{\hspace{2cm}}$



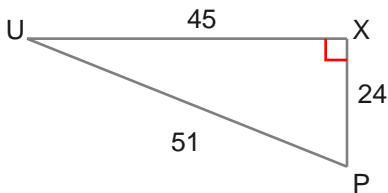
3) $\sin C = \underline{\hspace{2cm}}$



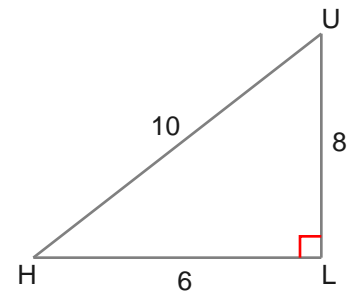
4) $\sin D = \underline{\hspace{2cm}}$



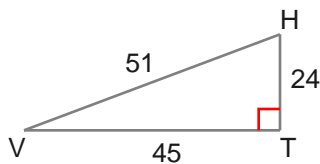
5) $\cos U = \underline{\hspace{2cm}}$



6) $\cos H = \underline{\hspace{2cm}}$



7) $\tan H = \underline{\hspace{2cm}}$



8) $\sin V = \underline{\hspace{2cm}}$

