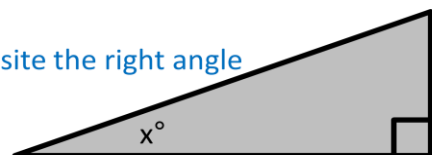


Trigonometry - SOHCAHTOA

Naming Sides

Hypotenuse – opposite the right angle



Opposite – opposite the marked angle

Adjacent – next to the marked angle

The Rules

$$\sin x^\circ = \frac{\text{opp}}{\text{hyp}}$$

$$\cos x^\circ = \frac{\text{adj}}{\text{hyp}}$$

$$\tan x^\circ = \frac{\text{opp}}{\text{adj}}$$

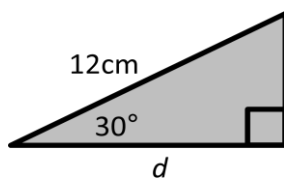
sin opp hyp

cos adj hyp

tan opp adj

SOH CAH TOA

Finding the top of the Ratio



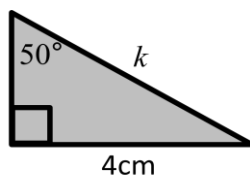
$$\cos x^\circ = \frac{\text{adj}}{\text{hyp}}$$

$$\cos 30^\circ = \frac{d}{12}$$

$$\cos 30^\circ \times 12 = d$$

$$d = 10.4\text{cm}$$

Finding the bottom of the Ratio



$$\sin x^\circ = \frac{\text{opp}}{\text{hyp}}$$

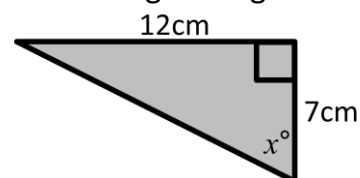
$$\sin 50^\circ = \frac{4}{k}$$

$$\sin 50^\circ \times k = 4$$

$$k = \frac{4}{\sin 50^\circ}$$

$$k = 5.2\text{cm}$$

Finding an Angle



$$\tan x^\circ = \frac{\text{opp}}{\text{adj}}$$

$$\tan x^\circ = \frac{7}{12}$$

$$\tan x^\circ = 1.714$$

$$x = \tan^{-1} 1.714$$

$$x = 59.7^\circ$$

SOHCAHTOA Practice

http://www.cimt.plymouth.ac.uk/projects/mepres/book9/bk9i15/bk9_15i2.html

http://www.cimt.plymouth.ac.uk/projects/mepres/book9/bk9i15/bk9_15i3.html

http://www.cimt.plymouth.ac.uk/projects/mepres/book9/bk9i15/bk9_15i4.html

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http://www.bbc.co.uk/bitesize/standard/maths_i/measure/trig/revision/1/

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