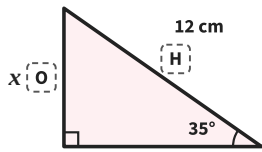


Trigonometry: Finding a Side



1 Label only the two sides you use.

Find x to 1 decimal place.

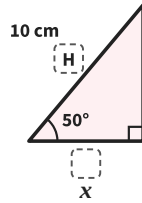


SOH CAH TOA

Make the unknown the subject of the formula.

$x =$ _____

2 Find x to 1 decimal place.

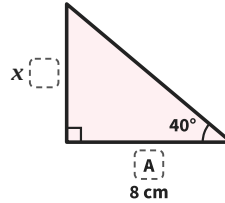


SOH CAH TOA

Make the unknown the subject of the formula.

$x =$ _____

3 Find x to 1 decimal place.

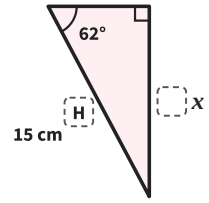


SOH CAH TOA

Make the unknown the subject of the formula.

$x =$ _____

4 Find x to 1 decimal place.

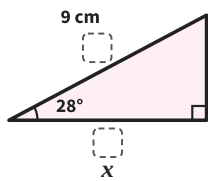


SOH CAH TOA

Make the unknown the subject of the formula.

$x =$ _____

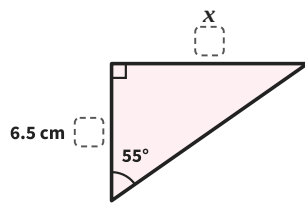
5 Find x to 1 decimal place.



Make the unknown the subject of the formula.

$x =$ _____

6 Find x to 1 decimal place.



Make the unknown the subject of the formula.

$x =$ _____

7 A ramp is 4 m long and makes an angle of 12° with the ground. How high does it rise? Give your answer to 2 decimal places.

Answer _____

8 Sam stands on level ground 30 m from the foot of a tree. The angle from the ground up to the top of the tree is 35° . How tall is the tree? Give your answer to 1 decimal place.

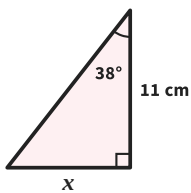
Answer _____

Trigonometry: Finding a Side *further practice*



9

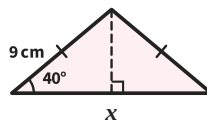
Find x to 1 decimal place.



$x =$ _____

10

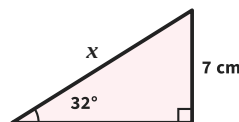
The triangle is isosceles. Find the length of its base, x , to 1 decimal place.



$x =$ _____

11

Find x to 1 decimal place.



$x =$ _____

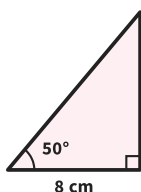
12

After take off, a plane climbs in a straight line at 14° to the level ground. How high is it when it has flown 3 km? Give your answer to the nearest metre.

Answer _____

13

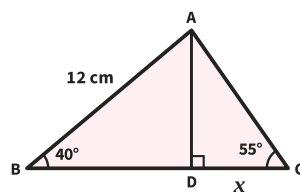
Find the area of the triangle to 1 decimal place.



Area _____

14

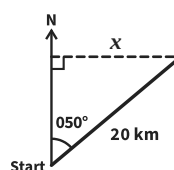
Find the length x to 1 decimal place.



$x =$ _____

15

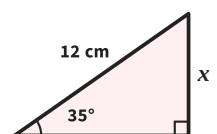
A boat sails 20 km on a bearing of 050° . How far east of its start is it? Give your answer to 1 decimal place.



$x =$ _____

16

Lily says $x = 12 \times \tan 35^\circ$. Is Lily right? Explain, then find x to 1 decimal place.



$x =$ _____