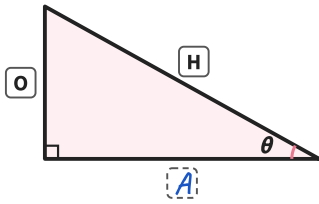


Labelling the Sides of a Right Angled Triangle

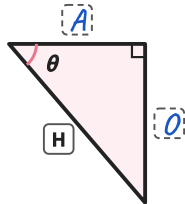
ANSWERS

1
Label the sides H, O and A.



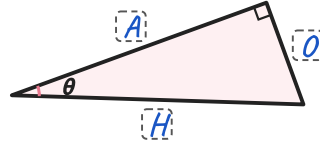
H is opposite the right angle.
O is opposite θ .
A is next to θ , and is not H.

2
Label the sides H, O and A.

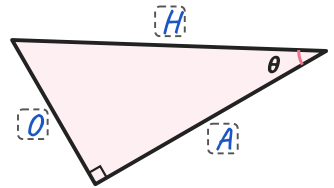


H is opposite the right angle.
O is opposite θ .
A is next to θ , and is not H.

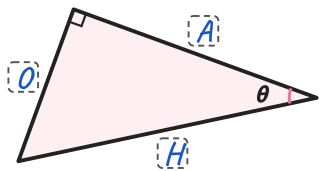
3
Label the sides H, O and A.



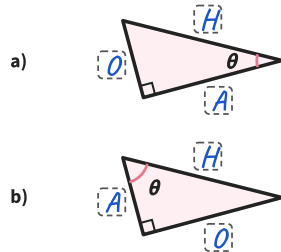
4
Label the sides H, O and A.



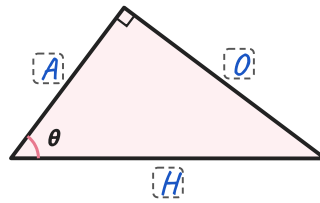
5
Label the sides H, O and A.



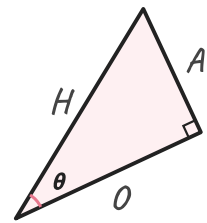
6
The same triangle twice, with θ at a different corner. Label the sides H, O and A on both.



7
Label the sides H, O and A. Take care: the right angle is at the top.



8
Kai labelled this triangle. Two labels are wrong. Explain the mistake.



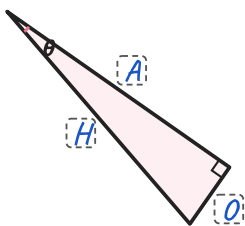
O and A are the wrong way round:
O is opposite θ , A is next to θ

Labelling the Sides of a Right Angled Triangle

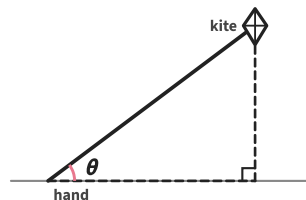
further practice

ANSWERS

9
Label the sides H, O and A.

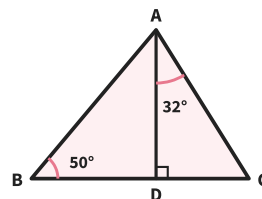


10
A kite string makes an angle θ with the level line from Mia's hand. Which side is the height of the kite above her hand: H, O or A? Which side is the string?



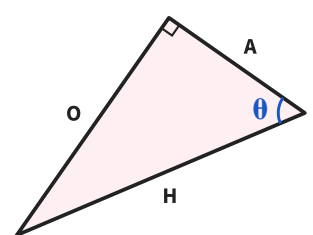
Height: O
String: H

11
Is AD the opposite or the adjacent side
a) in triangle ABD, using the 50° angle
b) in triangle ADC, using the 32° angle?

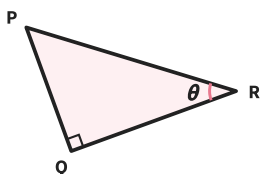


a) opposite (not touching B)
b) adjacent (next to the 32° angle)

12
The sides are labelled H, O and A. Mark the angle θ they were labelled from.

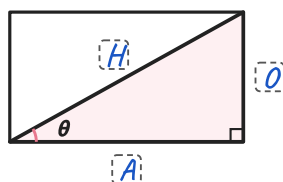


13
Write each side as two letters, using the angle θ at R.



$H = PR$, $O = PQ$, $A = QR$

14
A rectangle is cut along its diagonal. Label the sides of the shaded triangle H, O and A.



15
Ben moves θ to the other corner that is not the right angle. Which label stays on the same side? What happens to the other two? Explain.

H stays: it is opposite the right angle,
which does not move.
O and A swap sides.

16
Zara says that when θ is a big angle, the opposite can be longer than the hypotenuse. Is Zara right? Explain.

No. H is opposite the right angle,
the biggest angle in the triangle,
so H is always the longest side.