

Rapid Recall
Calculate the missing side on each of the triangle s below:scarimathematician @scarimaths www.scarimaths.weebly.com

Practice make Perfect
Calculate the missing lengths below:




## Advanced Pythagoras' Theorem

## Sketchy Maths

The base of a ladder is 7 metres from a wall. The height of the wall is 9 metres.
What is the minimum height the ladder must be to reach the top of the wall? (give your answer to 3 significant figures)

## Wicked Words

A right-angled triangle has two shorts side of length 12 cm and 16 cm . Find the length of the hypotenuse.

A right-angled triangle has a hypotenuse of length 117 cm and one short side of length 45 cm . Find the length of the other short side.

Find the distance between the coordinates ( $-2,1$ ) and ( $4,-5$ ), giving your answer to 3 significant figures.

## You'll need a pencill for this one!

Here is a picture of my pencil case (box). The dimensions can be seen too.


What is the largest pencil that could fit in this case(box)?
Convince Me!
Convince me that this is a right-angled triangle.

Erazy Coordinate
Here is a line, between two coordinates.

Can you, using Pythagoras' Theorem Calculate the length of the line to 3 significant figures?

## Exam Practice

A cuboid has length 3 cm , width 4 cm and height 12 cm .


