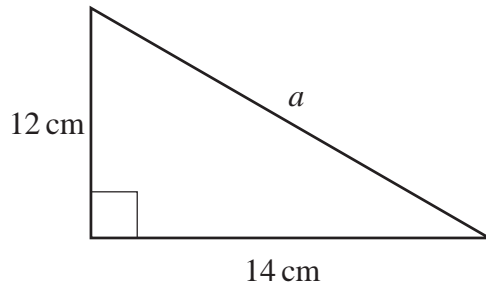


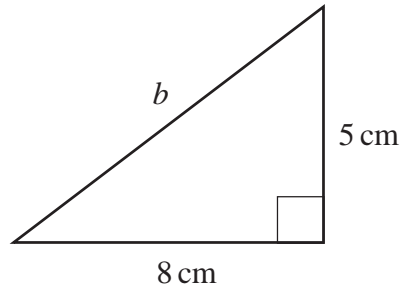
Pythagoras' Theorem



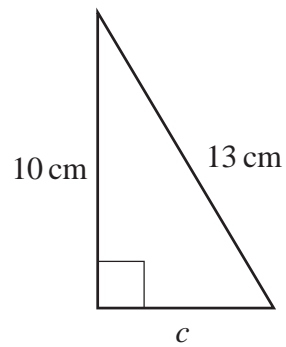
- 1) Find the length of side a .
Give your answer to 1 decimal place.



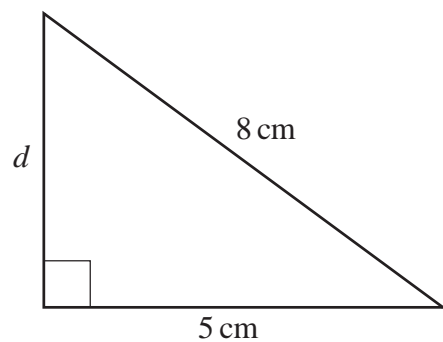
- 2) Find the length of side b .
Give your answer to 1 decimal place.



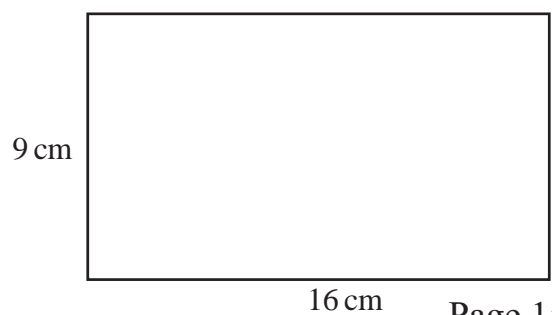
- 3) Find the length of side c .
Give your answer to 1 decimal place.



- 4) Find the length of side d .
Give your answer to 1 decimal place.

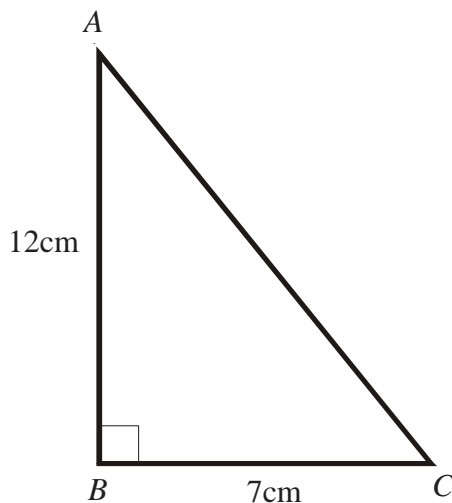


- 5) Find the length of the diagonal of this rectangle.
Give your answer to 1 decimal place.

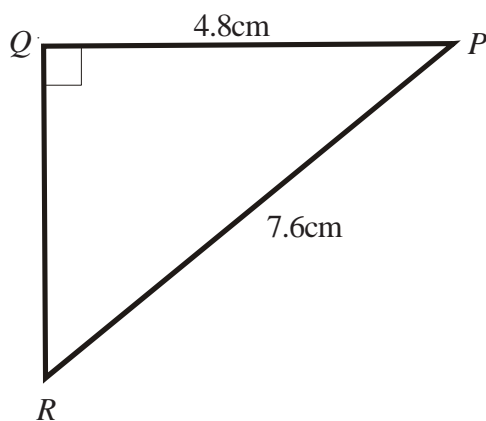




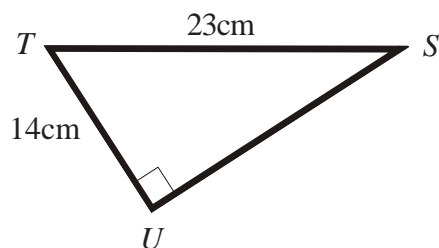
- 1) Find the length of side AC .
Give your answer to 1 decimal place.



- 2) Find the length of side QR .
Give your answer to 1 decimal place.



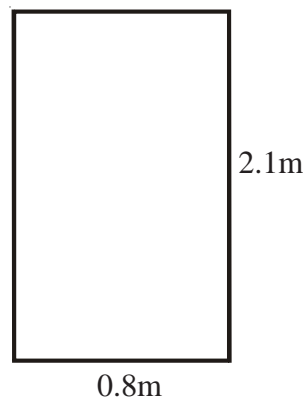
- 3) Find the length of side SU .
Give your answer to 1 decimal place.



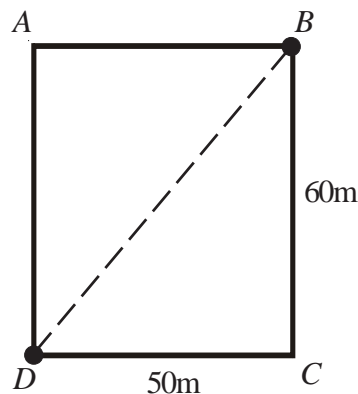
Pythagoras' Theorem



- 4) Below is a picture of a doorway.
Find the size of the diagonal of the doorway.
Give your answer to 1 decimal place.



- 5) In the sketch of the rectangular field, below, James wants to walk from B to D .



Which of the following routes is shorter and by how much?

From B to C to D or straight across the field from B to D .

Give your answer to the nearest metre.



- 6) Fiona keeps her pencils in a cylindrical beaker as shown below.
The beaker has a diameter of 8cm and a height of 17cm .
Will a pencil of length 19cm fit in the beaker without poking out of the top?
All workings must be shown.

