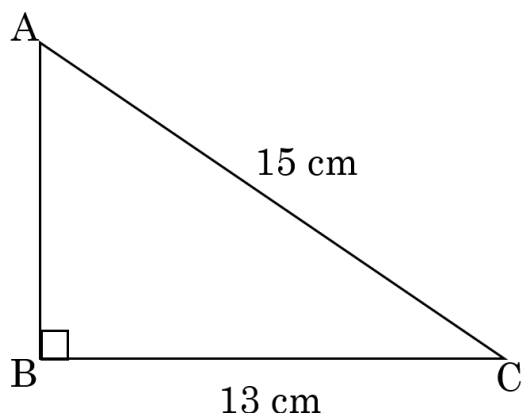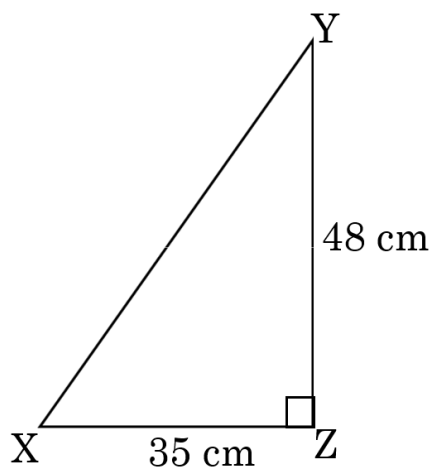# Pythagoras' Theorem Exam Practice

Q1. Find the length of side AB correct to 1 decimal place.

Answer:_____

(3 marks)

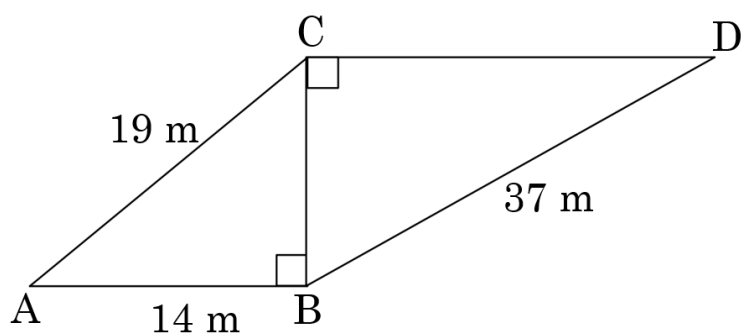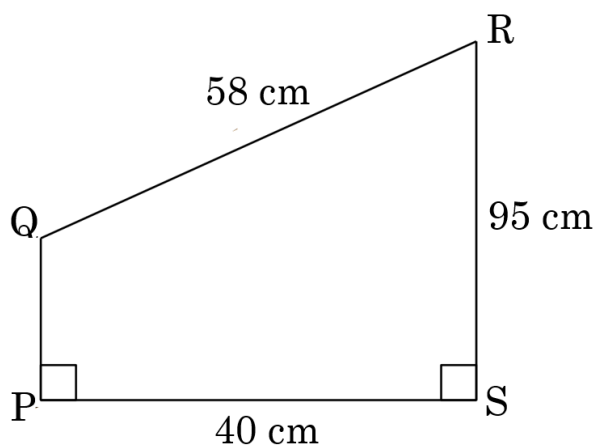Q2. Find the length of side XY correct to 1 decimal place.

Answer:_____

(3 marks)

GCSEMathsRevision.com

Q3. Find the length of side CD correct to 1 decimal place.

C   D

19 m

37 m

A   B
  14 m

Answer:_____

(4 marks)

Q4. Find the length of side PQ.

R

58 cm

95 cm

Q

P   S
  40 cm

Answer:_____

(4 marks)

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Q5. Find the area of the triangle shown, giving your answer to 3 significant figures.

17.5   17.5

10.5

Answer:_____

(4 marks)

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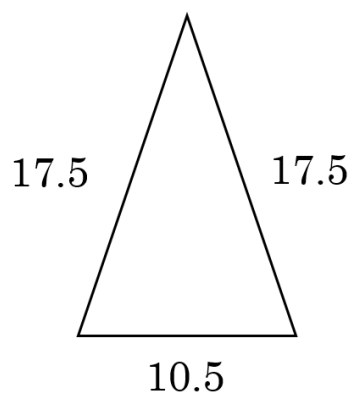
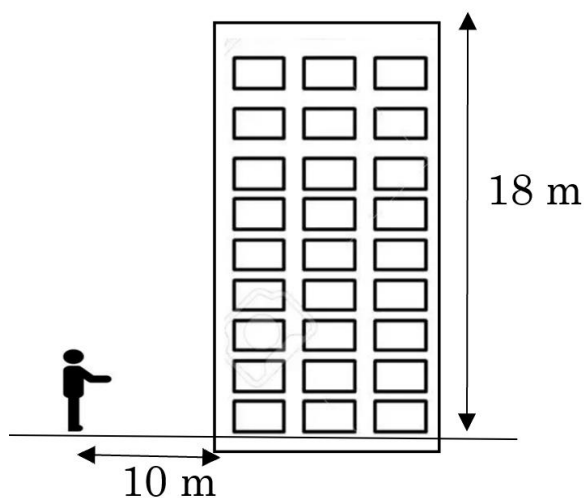Q6. Given that T is the mid-point of side NU, show that the triangle NPU is right-angled.
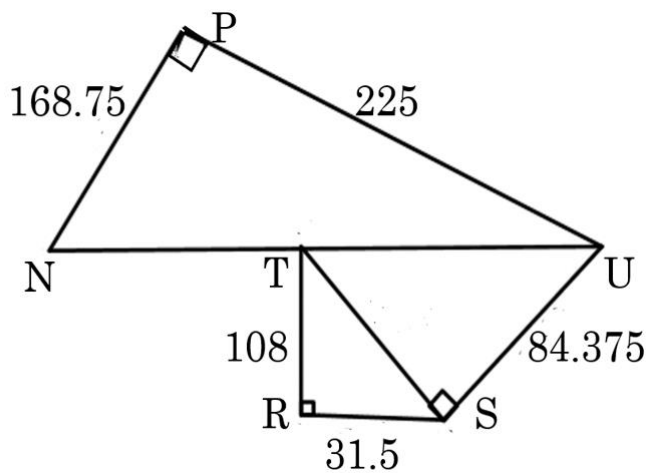
Answer:_____

(5 marks)

Q7. A boy throws a ball so that it lands on top of the building shown below:

18 m

10 m

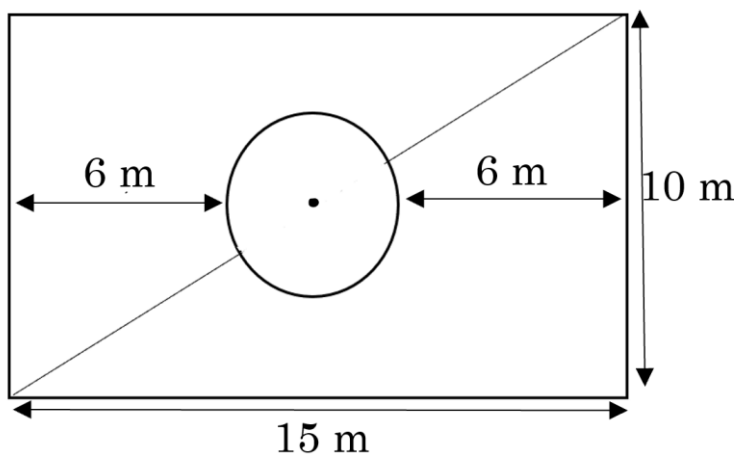   a) Work out an estimate for the distance the ball has travelled from the boy's arm to the roof.

Answer:_____

(3 marks)

   b) Is your answer to (a) an under or over-estimate? Explain your choice.

Answer:_____

(1 mark)

Q8. Here is a plan of an ornamental garden with a circular pond in the middle. The centre of the pond is marked on.

A path is to be created along the outside border, diagonally to the pond from the corners, and around the pond, using square paving slabs. If each 0.5 m² slab costs £11.50, work out the total cost of paving the garden.
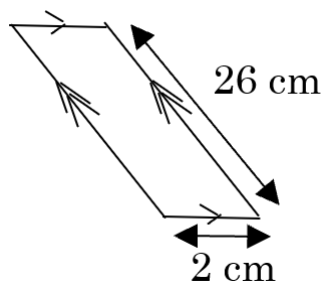
Answer:_____

(6 marks)

Q9. AB is a line segment, where A is (-4,10) and B is (20, 7). The point C divides AB in the ratio 1 : 2.
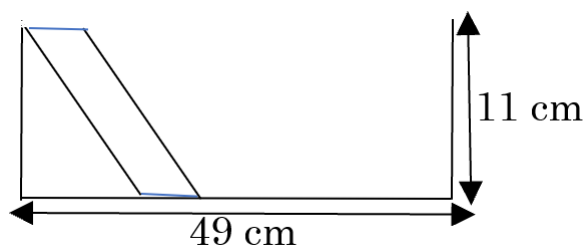
Find the distance CB to 1 decimal place.

Answer:_____

(5 marks)

Q10. Identical models in the following shape are to be packed into a box:

26 cm

2 cm

The first is fixed in place as shown:

11 cm

49 cm

More models are then placed on the right of the one already in place. Work out how many models can put in the box in this way:

Answer:_____

(6 marks)