

Name: _____

GCSE (1 – 9)

Pythagoras

Instructions

- Use **black** ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
– *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

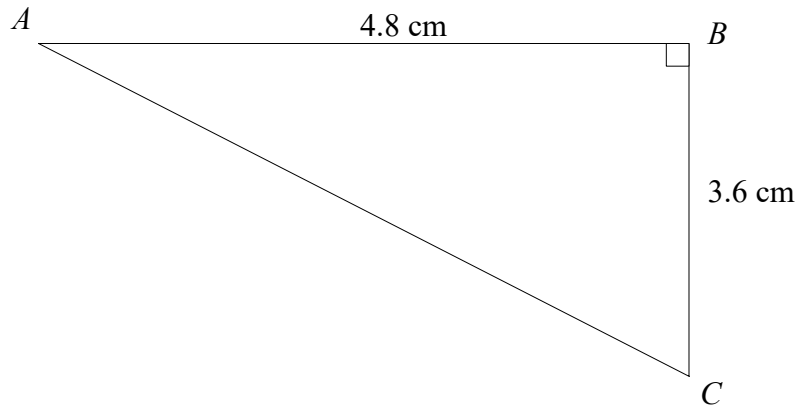
Information

- The marks for each Question are shown in brackets
– *use this as a guide as to how much time to spend on each Question.*

Advice

- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

1

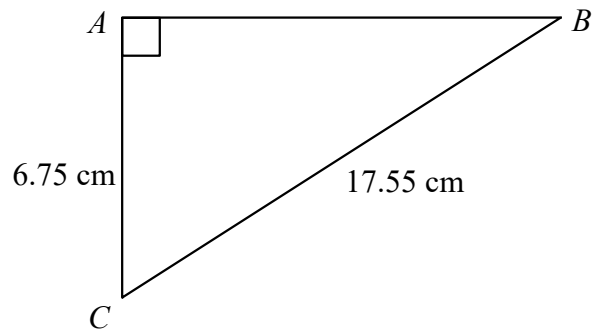


Calculate the length of AC .

.....cm

(Total for question 1 is 3 marks)

2

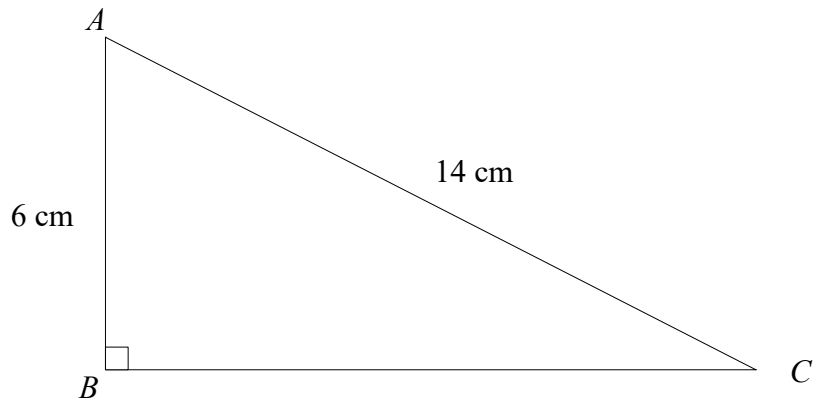


Calculate the length of AB .

.....cm

(Total for question 2 is 3 marks)

3

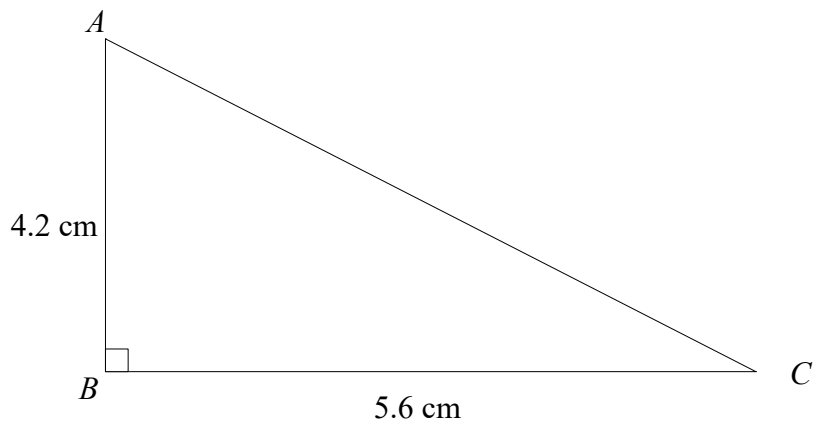


Calculate the length of BC .
Give your answer to 1 decimal place.

.....cm

(Total for question 3 is 3 marks)

4

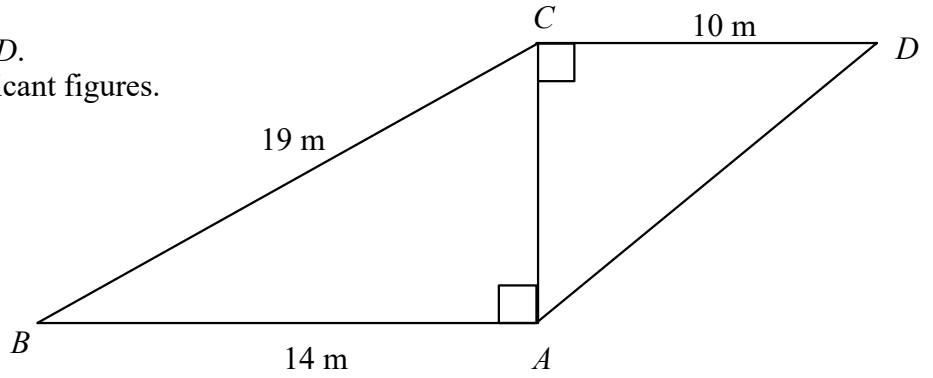


Calculate the length of AC .

.....cm

(Total for question 4 is 3 marks)

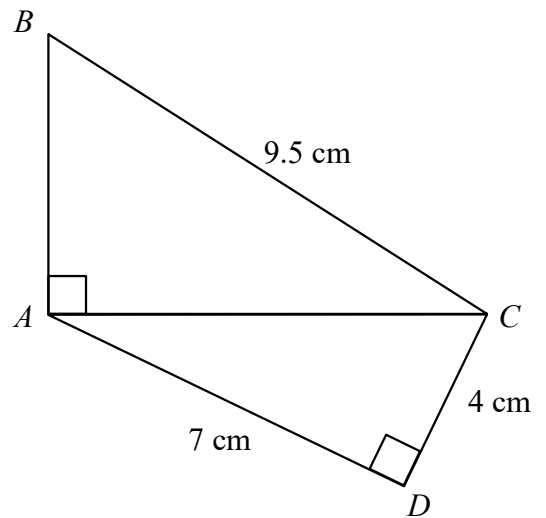
- 5 Calculate the length of the AD .
Give your answer to 3 significant figures.



.....m

(Total for question 5 is 4 marks)

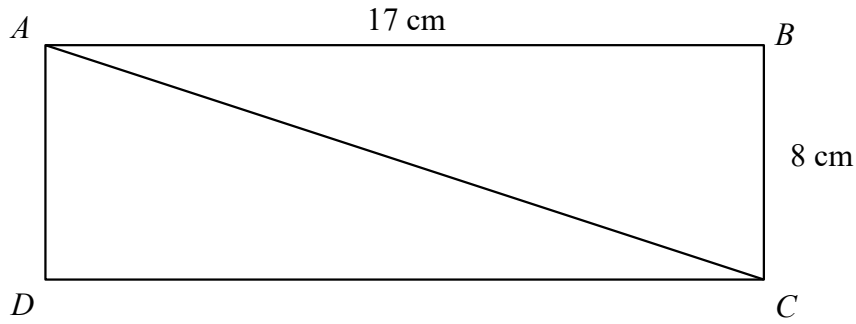
- 6 Calculate the length of the AB .
Give your answer to 3 significant figures.



.....cm

(Total for question 5 is 4 marks)

7



$ABCD$ is a rectangle .
Calculate the length of the diagonal AC .

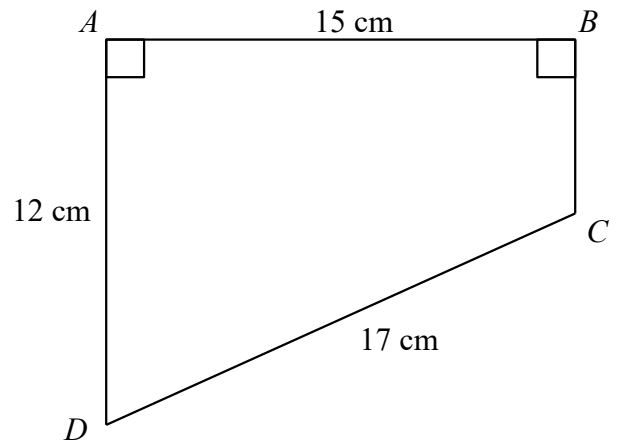
Give your answer correct to 1 decimal place.

.....cm

(Total for question 7 is 3 marks)

8

$ABCD$ is a trapezium.
Calculate the length of BC .

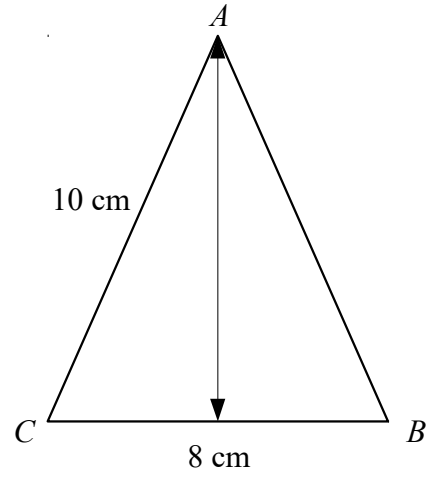


.....cm

(Total for question 8 is 3 marks)

9 ABC is an isosceles triangle.

Calculate the perpendicular height of ABC .
Give your answer correct to 3 significant figures..

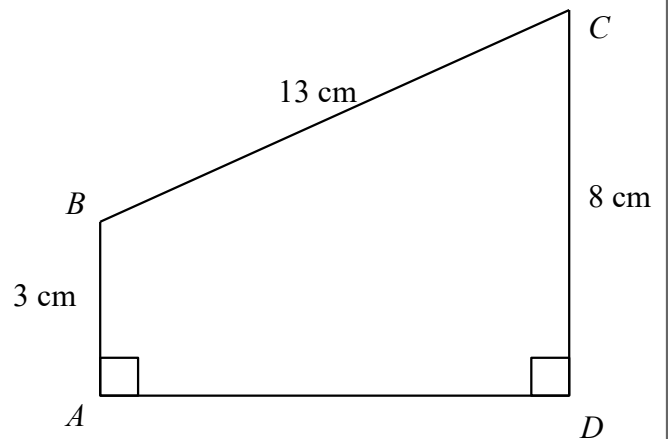


.....cm

(Total for question 9 is 3 marks)

10 $ABCD$ is a trapezium.

Calculate the length of AC .
Give your answer correct to 3 significant figures..



.....cm

(Total for question 10 is 4 marks)

- 11** A ship leaves point A and sails for 3.7 km due North.
The ship then sails for 2.4 km due East to reach point B.

Calculate the the shortest distance between point A and point B.
Give your answer correct to 1 decimal place.

.....km

(Total for question 11 is 3 marks)

- 12** A ladder reaches 2.5 m up a vertical wall.
The base of the ladder is 70 cm from the base of the wall on a horizontal ground.

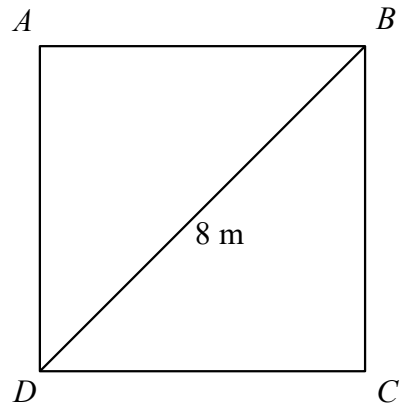
Find the length of the ladder.

.....

(Total for question 12 is 4 marks)

- 13 $ABCD$ is a square.
The diagonal of the square is 8 m.

Calculate the perimeter of the square.
Give your answer correct to one decimal place.



.....m

(Total for question 13 is 3 marks)

- 14 A television has a diagonal length of 50 inches.

The ratio of the length of the television to the width of the television is 4:3

Calculate the length and the width of the television.
Give your answers correct to 1 decimal place.

Length inches

Width inches

(Total for question 14 is 3 marks)