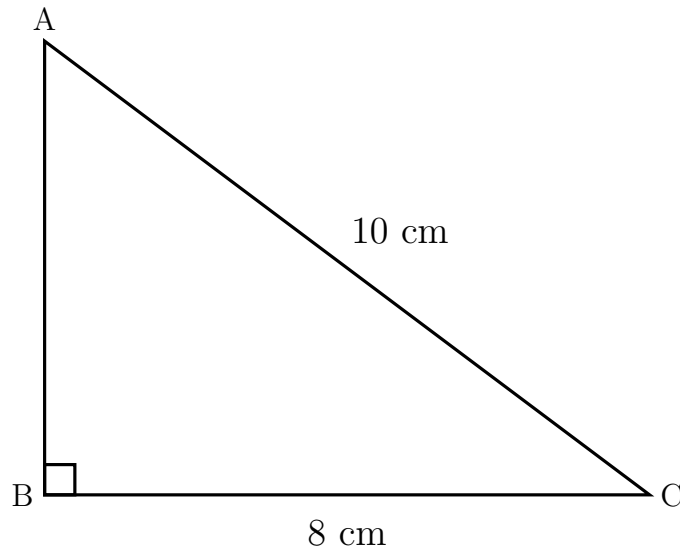


Use a scientific calculator and this formula

$$\text{mystery} = \sqrt{\text{longest}^2 - \text{shorter}^2}$$

1. (a) Here is a right angled triangle ABC.



$$BC = 8 \text{ cm}$$

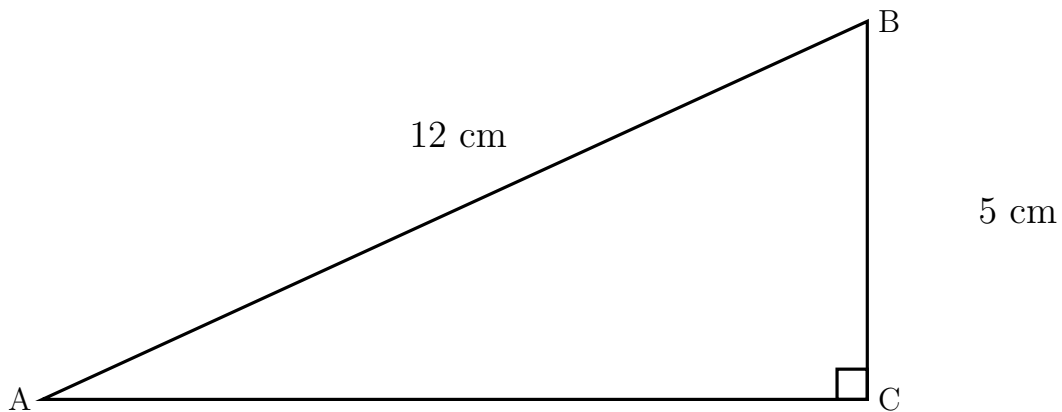
$$AC = 10 \text{ cm}$$

Work out the length of AB.

..... cm

Measure the lengths of all three sides to check your workings.

- (b) Here is a right angled triangle.



$$AB = 12 \text{ cm}$$

$$BC = 5 \text{ cm}$$

Work out the length of AC.

Give your answer correct to 1 decimal place.

..... cm

Measure the lengths of all three sides to check your workings.

Turn over for more questions and answers.

2. Here is a right angled triangle.

$BC = 17 \text{ cm}$

$AB = 25 \text{ cm}$

Work out the length of CA.

Give your answer correct to 1 decimal place.

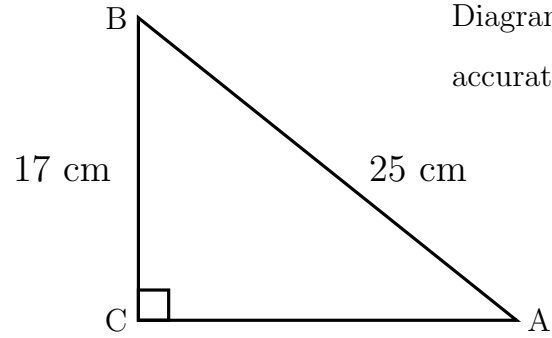


Diagram NOT accurately drawn

.....18.3..... cm

3. In triangle ABC

$AC = 125 \text{ km}$

$BC = 35 \text{ km}$

angle $ABC = 90^\circ$

Work out the length of AB.

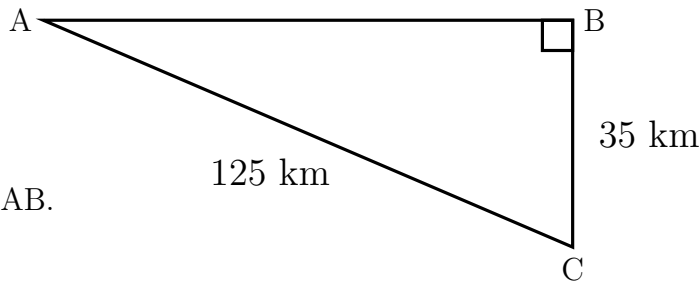


Diagram NOT accurately drawn

..... km

4. The diagram shows a ladder AB resting against a wall BC.

The distance AC is 2 m

The length of the ladder AB is 5 m

Calculate the height BC.

Give your answer correct to 1 decimal place.

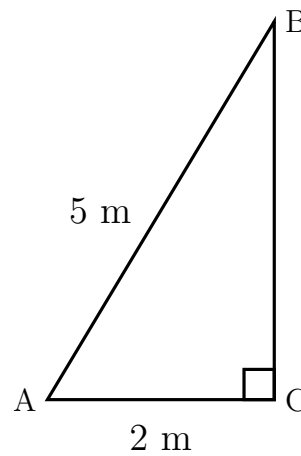


Diagram NOT accurately drawn

..... m

Answers 1a) 6 b) 10.9 2) 18.3 3) 120 4) 4.6