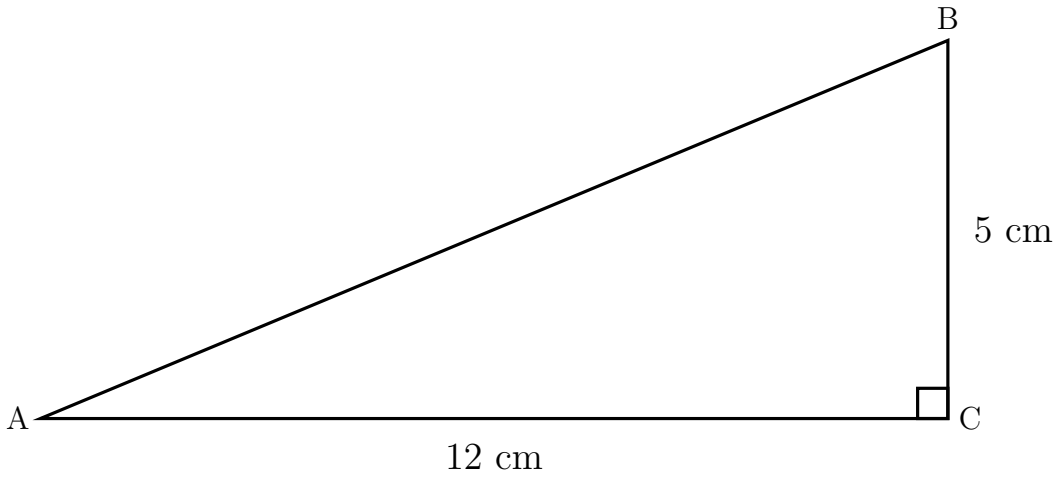
Use a scientific calculator and the formula $\text{long} = \sqrt{short^2 + middle^2}$

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

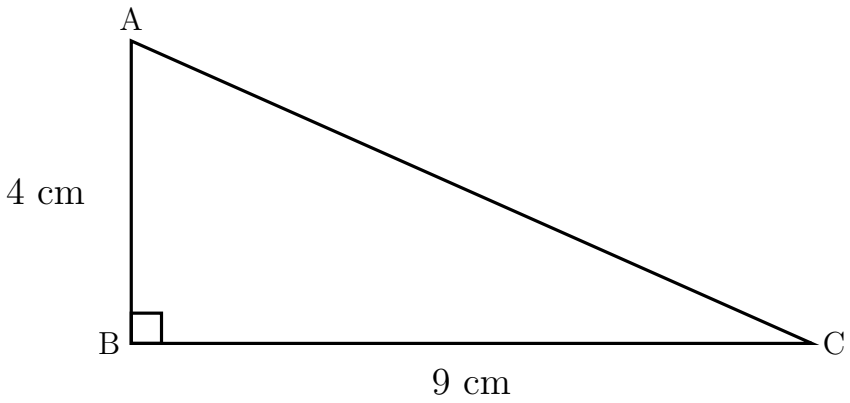


AC = 12 cm
BC = 5 cm
Work out the length of AB.

..... cm

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

(b) Here is a right angled triangle.



AB = 4 cm
BC = 9 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 right angled triangle ABC.

AB = 9 cm

AC = 13 cm

Work out the length of BC.

Give your answer correct to 1 decimal place.

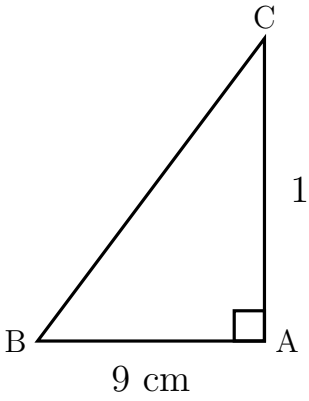


Diagram NOT accurately drawn

..... cm

3. Here is a right angled triangle.

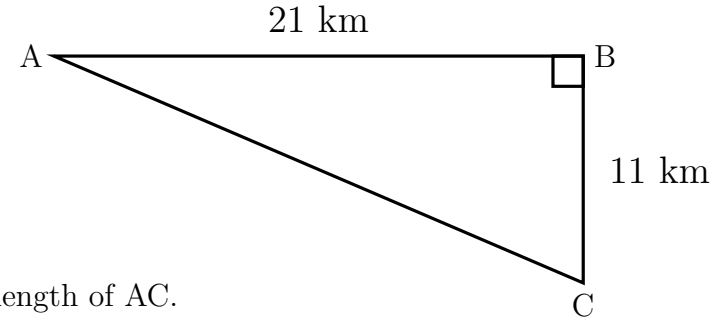


Diagram NOT accurately drawn

AB = 21 km

BC = 11 km

Work out the length of AC.

Give your answer correct to 1 decimal place.

..... km

4. The diagram shows the positions in a park of K the kiosk, L the lake and M the maze.

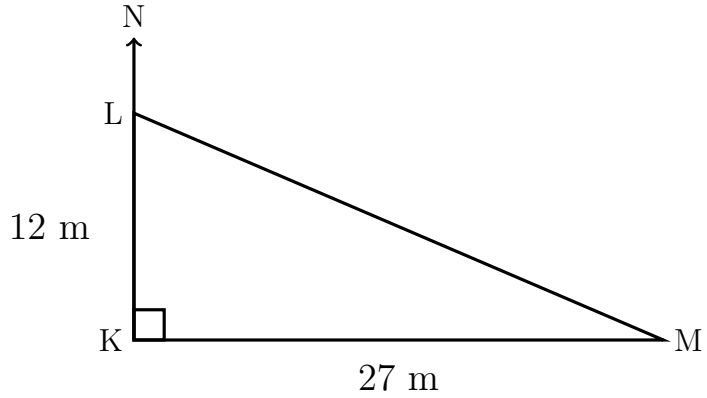


Diagram NOT accurately drawn

L is 12 metres due north of K.

M is 27 metres due east of K.

Calculate the distance LM between lake and the maze.

Give your answer correct to 1 decimal place.

..... metres

Answers 1a) 13 b) 9.8 2) 15.8 3) 23.7 4) 29.5