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

1. Here is a right angled triangle.

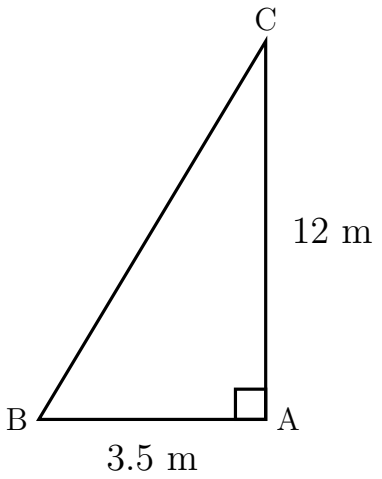

Diagram NOT accurately drawn

AB = 3.5 m

AC = 12 m

Work out the length of BC.

Give your answer correct to 1 decimal place.

..... m

2. Complete the formula $\text{long} = \sqrt{^2 + ^2}$

3. Complete the formula $\text{long} = \sqrt{\quad^2 + \quad^2}$

4. Here is a right angled triangle.

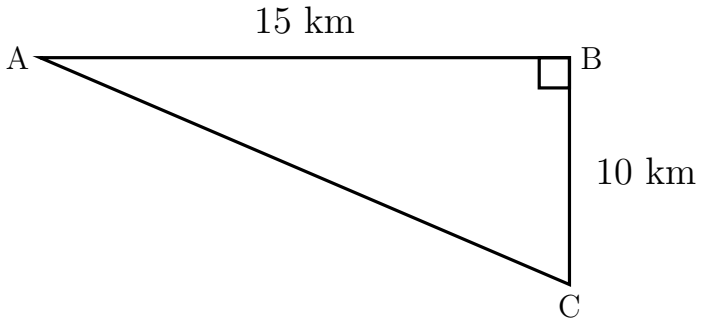

Diagram NOT accurately drawn

AB = 15 km

BC = 10 km

Work out the length of AC.

Give your answer correct to 1 decimal place.

..... km

5. Complete the formula $\text{long} = \sqrt{\square + \square}$

6. Complete the formula $\text{long} = \sqrt{\square + \square}$

7. ABC is a triangle.

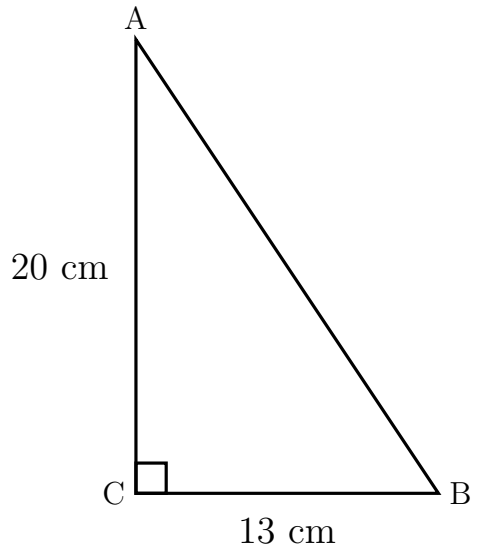

Diagram NOT accurately drawn

AC = 20 cm

BC = 13 cm

angle ACB = 90°

Work out the length of AB.

Give your answer correct to 1 decimal place.

..... cm

8. Complete the formula $\text{long} = \sqrt{\square + \square}$

9. Complete the formula $= \sqrt{\square + \square}$

Answers

1. 12.5 m
2. long $= \sqrt{short^2 + middle^2}$
3. long $= \sqrt{short^2 + middle^2}$
4. 18.0 km
5. long $= \sqrt{short^2 + middle^2}$
6. long $= \sqrt{short^2 + middle^2}$
7. 23.9 m
8. long $= \sqrt{short^2 + middle^2}$
9. long $= \sqrt{short^2 + middle^2}$