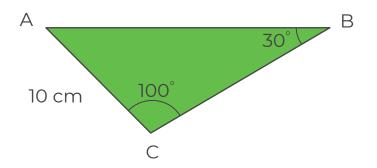
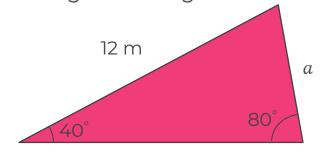


1. Find the length of side AB to one decimal place.

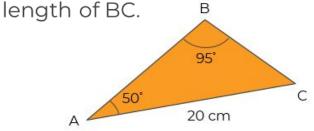


2. Find the length of the side labelled *a* to three significant figures.





3. Tamsin is trying work out the

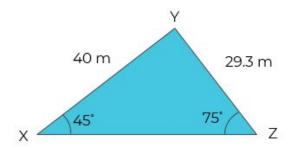


Here is her working out.

BC =
$$\sin 50 \times \frac{\sin 95}{20}$$

What mistake has she made?

4. Below is a diagram of John's field.



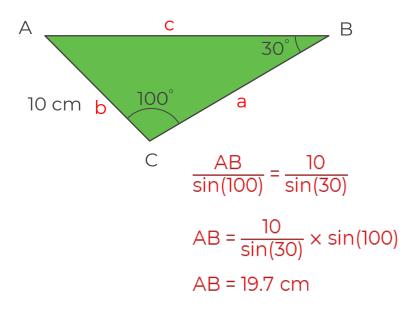
John wants to put a fence on each side of the field. He has 105 metres of fencing. Does he have enough?



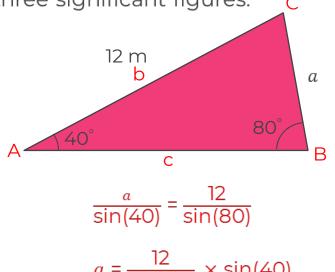
Answers



1. Find the length of side AB to one decimal place.



2. Find the length of the side labelled *a* to three significant figures.

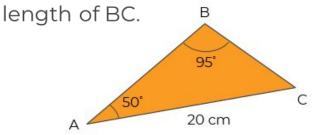


$$a = \frac{12}{\sin(80)} \times \sin(40)$$

$$a = 7.83 \text{ m}$$



3. Tamsin is trying work out the



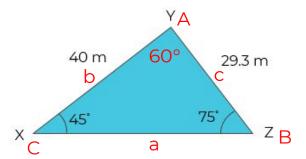
Here is her working out.

BC =
$$\sin 50 \times \frac{\sin 95}{20}$$

What mistake has she made?

Written
$$\frac{\sin 95}{20}$$
 instead of $\frac{20}{\sin 95}$

4. Below is a diagram of John's field.



John wants to put a fence on each side of the field. He has 105 metres of fencing. Does he have enough?

$$\frac{40}{\sin(75)} \times \sin(60) = 35.863....$$
 ≈ 105.1 needed.

Not enough

