Name:

# GCSE (1-9) The Cosine Rule 

## 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


Work out the value of $x$.
Give your answer to 1 decimal place.

2


Work out the length of BC.
Give your answer to 3 significant figures.


Work out the length of AB .
Give your answer to 1 decimal place.
$\qquad$ .cm

4


Work out the value of $x$.
Give your answer to 3 significant figures.


Work out the value of $x$.
Give your answer to 3 significant figures.

6


Work out the size of angle $A B C$
Give your answer to the nearest degree.
$\qquad$

7


Work out the value of $x$.
Give your answer to 1 decimal place.

8


Work out the size of angle BAC.
Give your answer to 3 significant figures.


Work out the value of $x$.
Give your answer to 1 decimal place.


Work out the value of $x$.


The area of the triangle is $100 \mathrm{~m}^{2}$
Calculate the perimeter of triangle $A B C$.
Give your answer to 3 significant figures.

