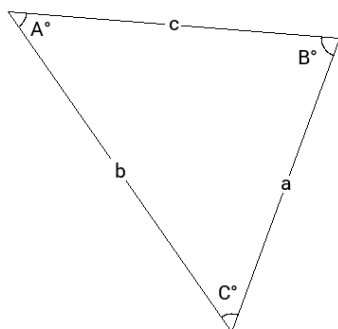


## Notes from Lesson 1: Finding Area of Triangle

### Notes from Lesson 1.1: Introduction to Non-Right Angle Triangles

When we have a right angle triangle we label the sides using the lowercase letters a, b and c and we label the angles using uppercase letters A, B and C.

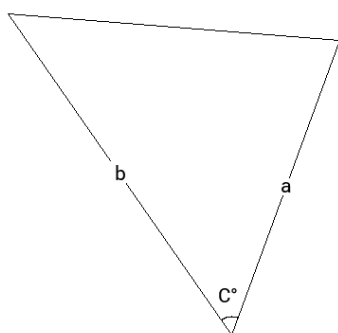
This gives us a triangle that looks like this:



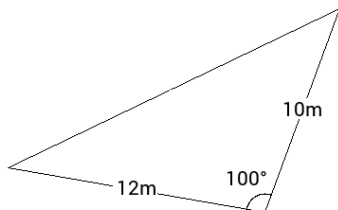
### Notes from Lesson 2.2

To find the area of a triangle you use the formula:  $\text{Area} = \frac{1}{2} a b \sin(C)$

As you can see from the triangle below, a and b are the two sides, and C is the angle in between them.



Let's look at an example:



For this the formula is  $\text{Area} = \frac{1}{2} a b \sin(C)$

So...  $\text{Area} = \frac{1}{2} \times 10 \times 12 \times \sin(100) = 59.1\text{m}^2$  (don't forget the units)