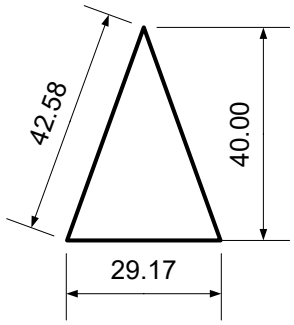
Area of Shapes

1 On the right is a diagram of a triangle. All dimensions are given in millimetres.



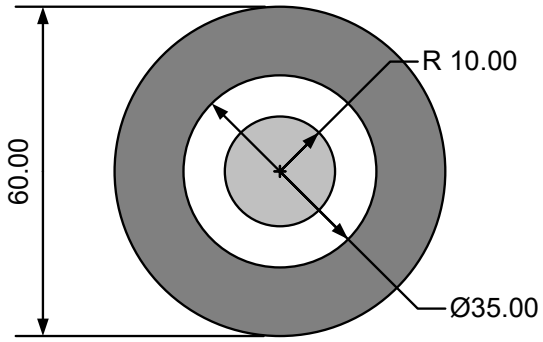
a. Find the area of the triangle.

b. If the sides were all doubled in length, how would this affect the area?

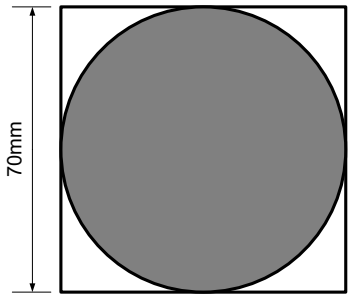
2 Three concentric circles are drawn as shown in the diagram below.

a. Calculate the areas of each of the rings and the central circle.

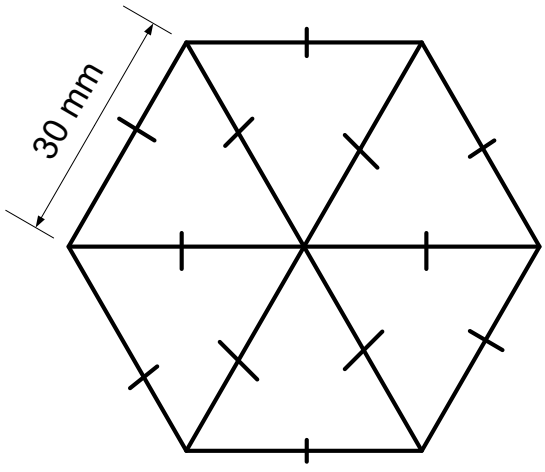
b. Calculate the perimeters of each of the circles.



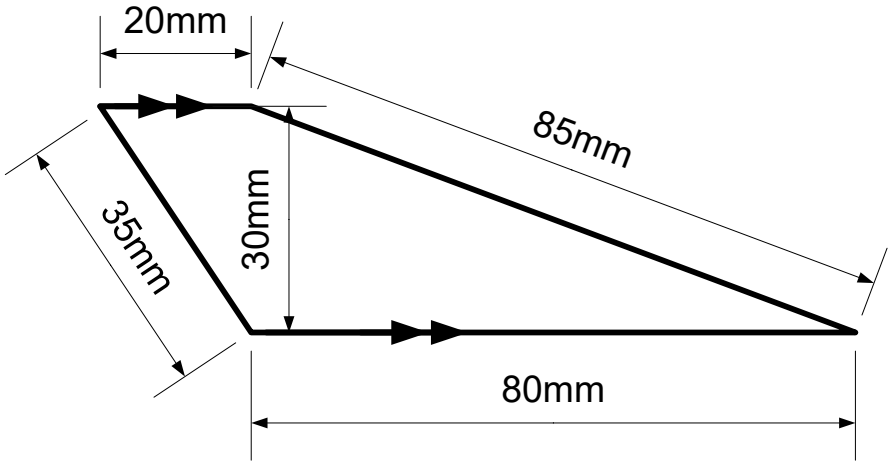
3 Calculate the area of the unshaded part of the square.



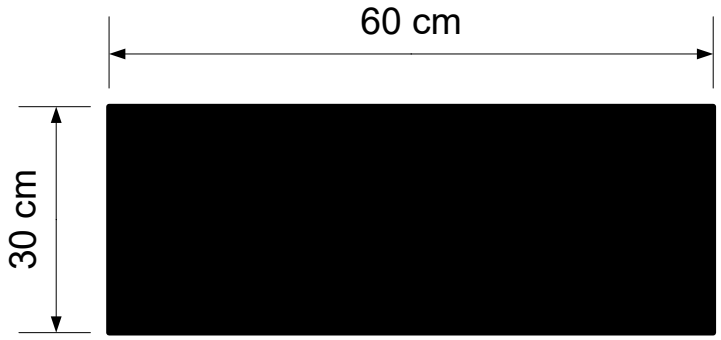
4 Find the area of this hexagon.



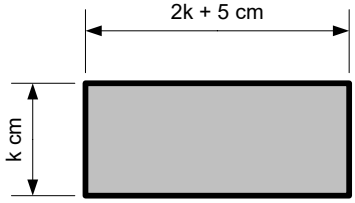
5 Find the area of the shape shown.



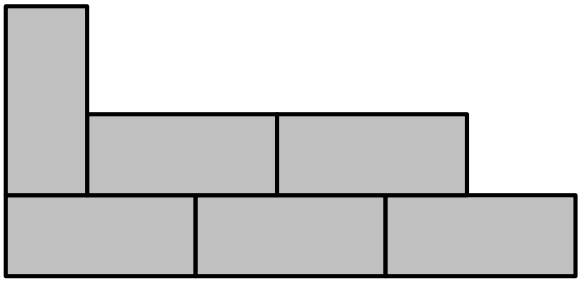
6 The dimensions of the oblong below have been rounded to the nearest cm. Calculate the error interval of the area of the oblong.



7 The rectangles in the shape below are all of equal size. The shape has a perimeter of 220 cm. The dimensions of each rectangle are as shown:

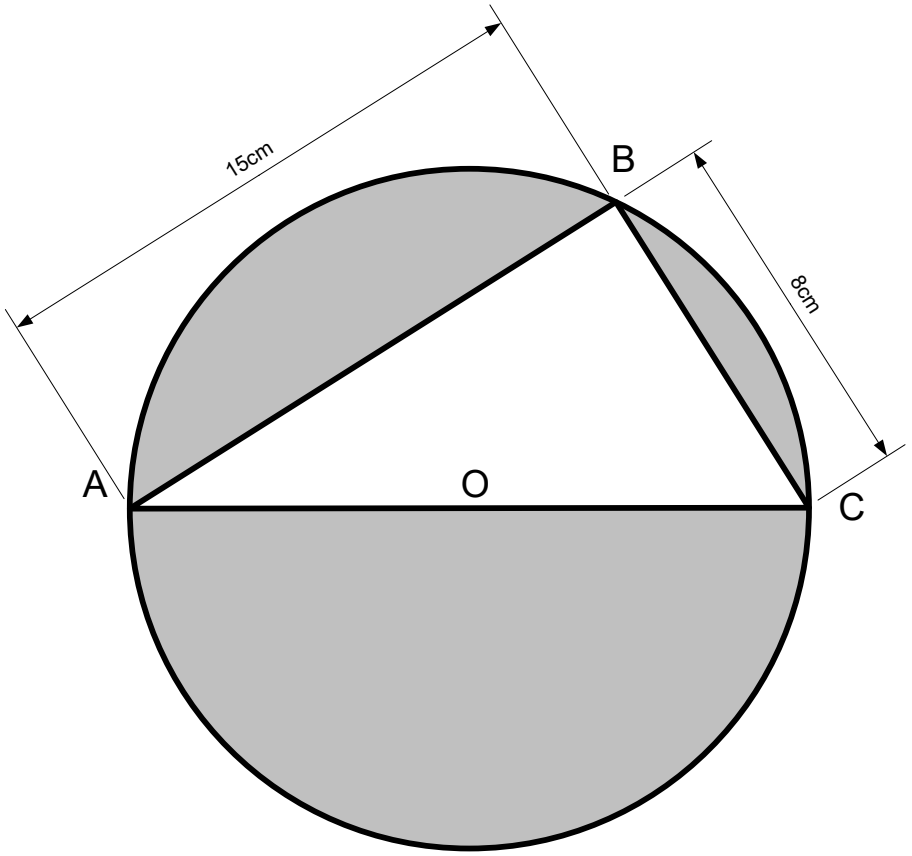


What is the area of the shape below?

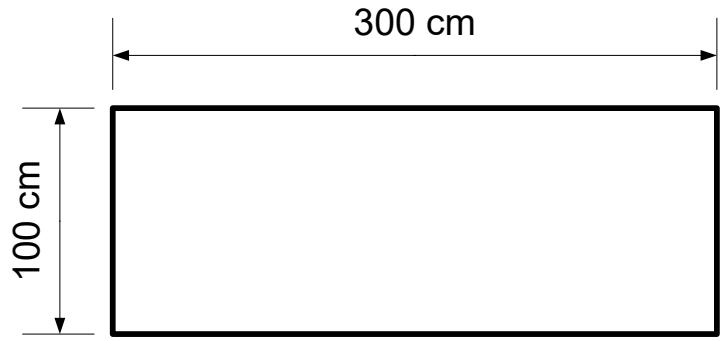


8 AOC is the diameter of the circle.
AB is 15cm long.
BC is 8cm long.

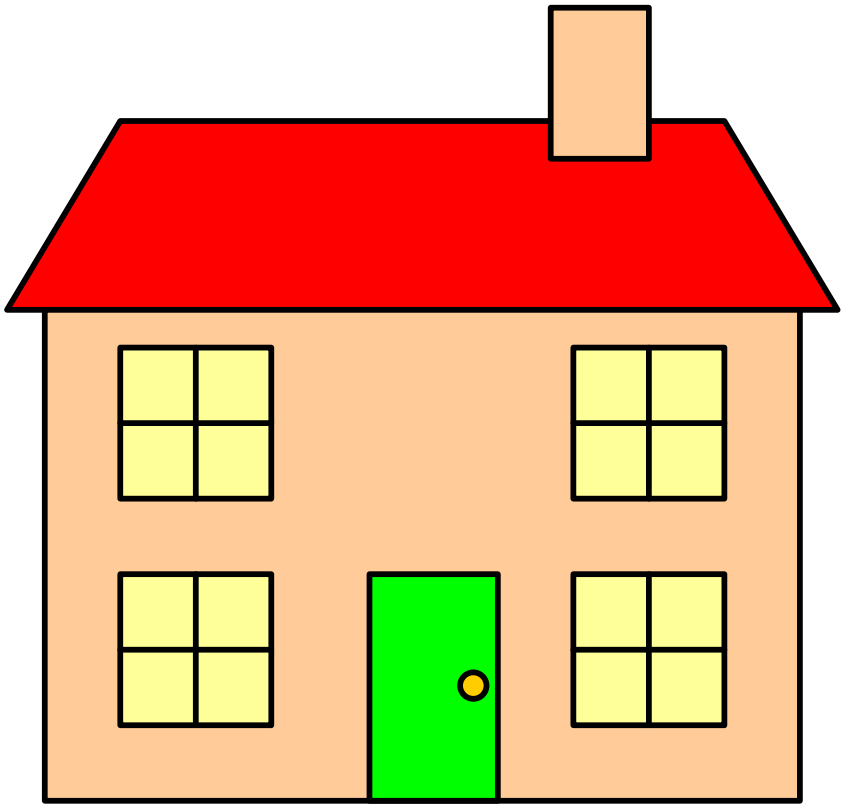
Calculate the area of the shaded part of the circle.



9. The dimensions in the oblong below have been rounded to one significant figure. Give the error interval of the area of the oblong.



10 The house below is actually 12m high from the floor to the top of the chimney.



a What is the total area of the windows?

b What is the area of the door?

c What is the area of the roof?