

11. A gardener is making a circular lawn of radius 6 m.

(a) Calculate the area of the lawn.

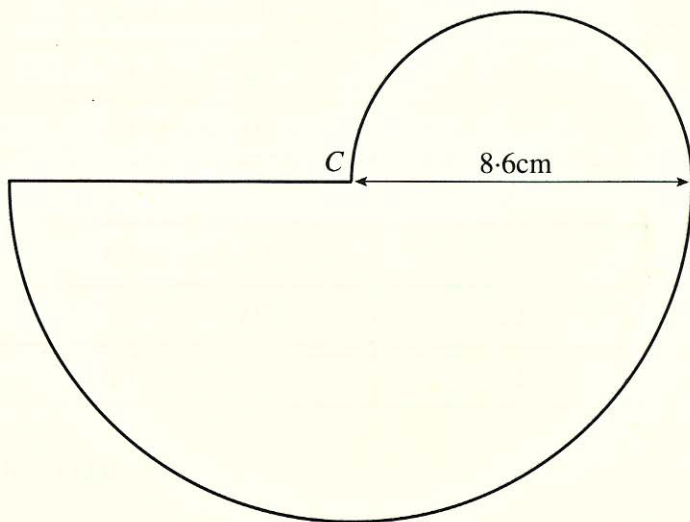


[2]

(b) The gardener wishes to put an edging around the circumference of the lawn. Calculate the length of edging needed.

[2]

13. The shape shown below is made up of two semicircles. The diameter of the smaller semicircle is 8.6 cm. C is the mid-point of the diameter of the larger semicircle.



Stating clearly the units of your answers, calculate

- (a) the perimeter of the shape, giving your answer to an appropriate degree of accuracy,



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[3]

- (b) the area of the shape, giving your answer to the nearest whole number.

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[3]

12. Elliot measures the diameter of a £2 coin and finds it to be 28mm. Clearly stating the units of your answers, calculate

(a) the circumference of his £2 coin,



[2]

(b) the area of one circular face of his £2 coin.

[3]