

27

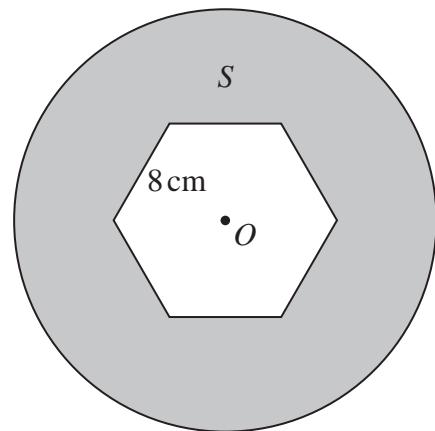


Diagram **NOT**
accurately drawn

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The diagram shows a shaded region, S , formed by removing a regular hexagon from a circle.

The centre of the circle is the point O .

The hexagon has centre O and sides of length 8 cm.

Given that

$$\text{area of the hexagon} = \text{area of } S$$

calculate the radius, in cm to one decimal place, of the circle.



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..... cm

(Total for Question 27 is 5 marks)

Turn over for Question 28



P 6 6 0 2 1 R A 0 2 5 2 8