

Show all working – Calculator allowed.

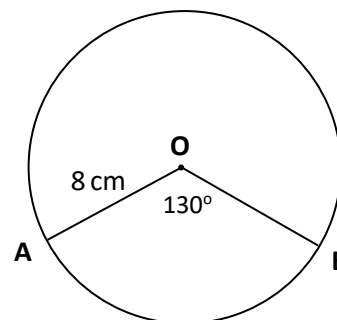
Marks

1. a) Find the length of the minor arc AB in this circle.

b) Calculate the area if the minor sector AOB.

c) Find the length of the **major** arc AB in this circle.

d) Calculate the area of the **major** sector AOB.



(3)

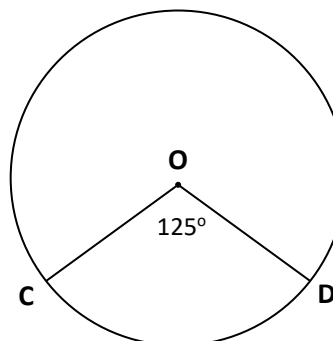
(2)

(3)

(2)

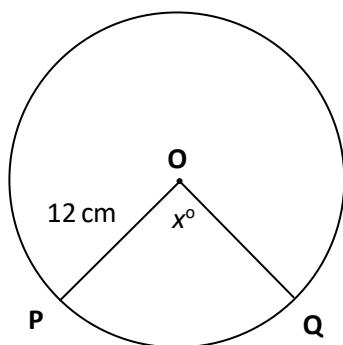
2. The length of arc CD is 8.8 cm.

Calculate the circumference  
of the circle.



(3)

3.



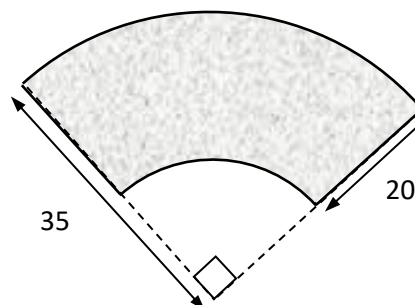
The area of sector OPQ is  $100 \text{ cm}^2$ .

Calculate the size of angle,  $x^\circ$ , to  
the nearest degree.

(2)

4. Ornamental paving slabs are in the shape of  
part of a sector of a circle.

Calculate the area of the slab shown.



(5)

Total Marks: 20