

6.8 Areas of Circles and Sectors

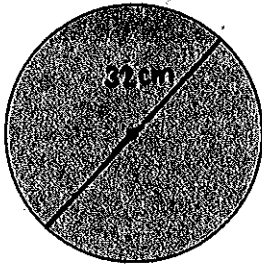
Area of a Circle:

Sector of a Circle:

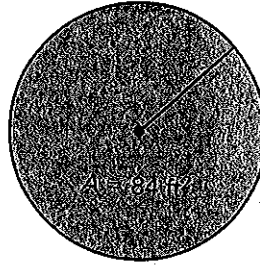
Area of a Sector:

Find the indicated measure.

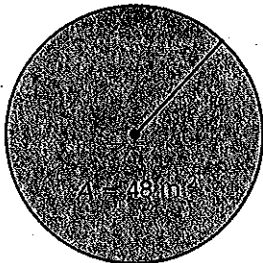
1. Area



2. Radius

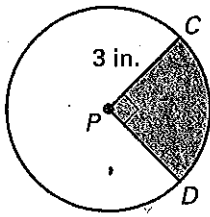


3. Diameter

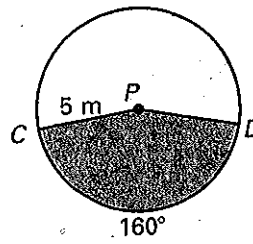


Find the area of the shaded region.

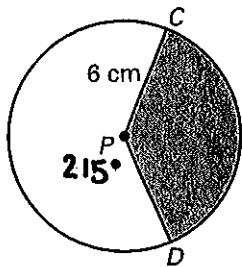
4.



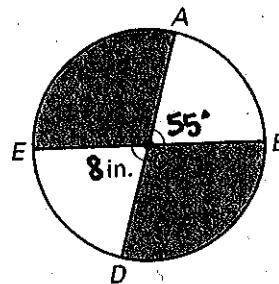
5.



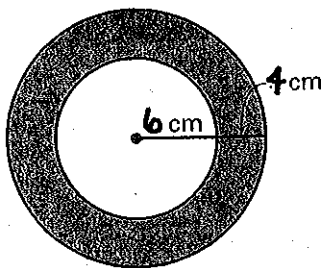
6.



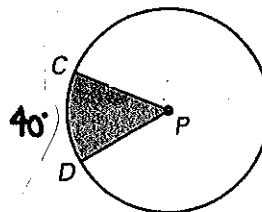
7.



8.



9. Find the radius of the given shaded region.



$$A_{\text{sector}} = 59 \text{ in}^2$$