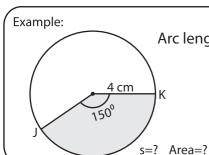
(Arc Length and Area of a Sector)



Arc length of a sector (s) = $\frac{\theta \times \pi \times r}{180^{\circ}}$

$$=\frac{150^{\circ} \times 3.14 \times 4}{180^{\circ}}$$

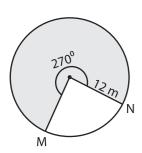
Area =
$$\frac{s \times r}{2}$$

$$=\frac{10.47 \times 4}{2}$$

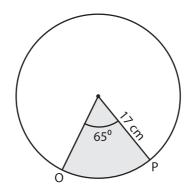
$$= 20.94 \text{ cm}^2$$

Find the length of the arc and area of the shaded region. Round the answer to two decimal places. (use $\pi = 3.14$)

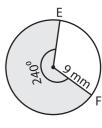
1)



2)



3)



Length of the arc MN =____

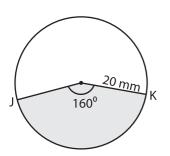
Area of a sector =_____

Length of the arc OP = Length of the arc EF =

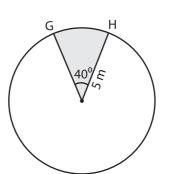
Area of a sector = _____

Area of a sector = _____

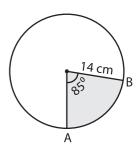
4)



5)



6)



Length of the arc JK = _____

Area of a sector = _____

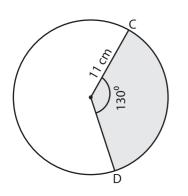
Length of the arc GH =_____

Area of a sector = _____

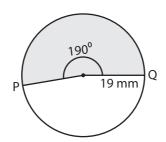
Length of the arc AB =

Area of a sector =

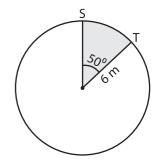
7)



8)



9)



Area of a sector = _____



Area of a sector = _____

Length of the arc ST = _____

Area of a sector = _____