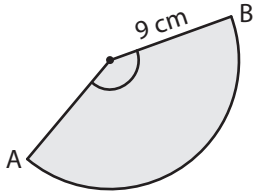
Finding Area of the Sector from Arc Length

Find the area of each shaded region. Round your answer to two decimal places. (Use π = 3.14)

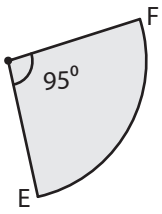
1)



Length of the arc AB = 23.55 cm

Area = _____

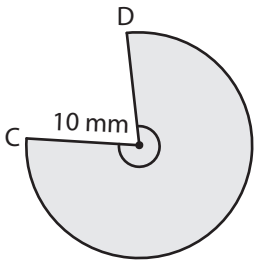
2)



Length of the arc EF = 31.49 m

Area = _____

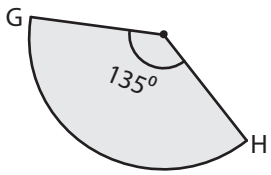
3)



Length of the arc CD = 48.84 mm

Area = _____

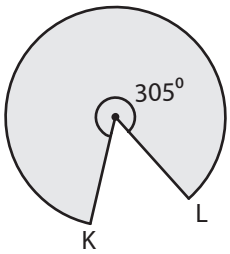
4)



Length of the arc GH = 30.62 mm

Area = _____

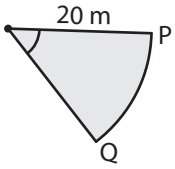
5)



Length of the arc KL = 42.56 cm

Area = _____

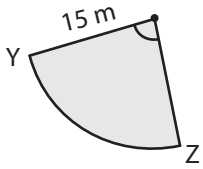
6)



Length of the arc PQ = 17.44 m

Area = _____

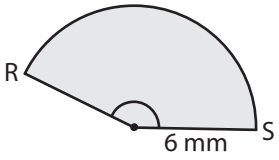
7)



Length of the arc YZ = 22.24 m

Area = _____

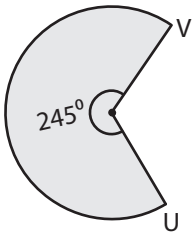
8)



Length of the arc RS = 16.22 mm

Area = _____

9)



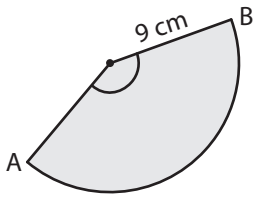
Length of the arc UV = 17.1 cm

Area = _____

Finding Area of the Sector from Arc Length Answer Key

Find the area of each shaded region. Round your answer to two decimal places. (Use π = 3.14)

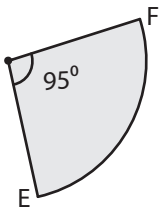
1)



Length of the arc AB = 23.55 cm

Area = **105.98 cm²**

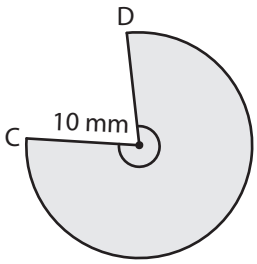
2)



Length of the arc EF = 31.49 m

Area = **299.18 m²**

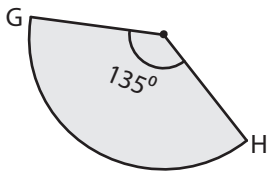
3)



Length of the arc CD = 48.84 mm

Area = **244.2 mm²**

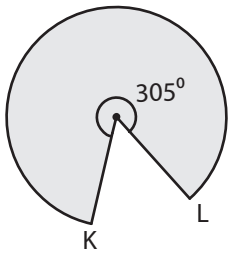
4)



Length of the arc GH = 30.62 mm

Area = **199.06 mm²**

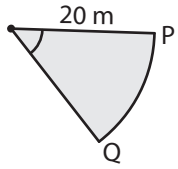
5)



Length of the arc KL = 42.56 cm

Area = **170.22 cm²**

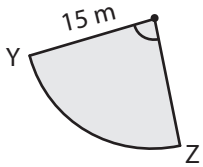
6)



Length of the arc PQ = 17.44 m

Area = **174.4 m²**

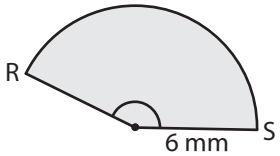
7)



Length of the arc YZ = 22.24 m

Area = **166.8 m²**

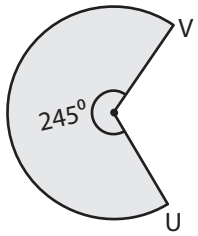
8)



Length of the arc RS = 16.22 mm

Area = **48.66 mm²**

9)



Length of the arc UV = 17.1 cm

Area = **34.21 cm²**