Name : _____ Score : _____

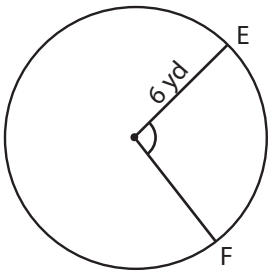
Sheet 2

Radius, Central Angle & Arc Length

$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^0} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^0}$$

Find the missing one. Round the radius and central angle to the nearest whole number.
Round the arc length to two decimal places. (use $\pi = 3.14$)

1)

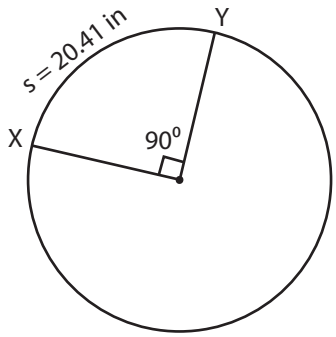


Radius = _____

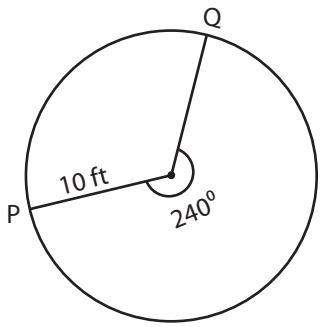
Central angle = _____

Length of the arc EF = _____

2)



3)

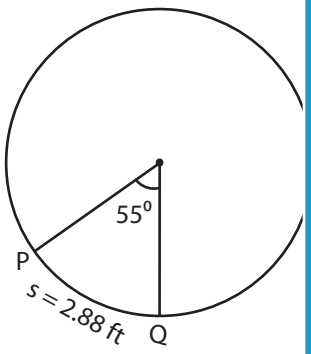


Radius = _____

Central angle = _____

Length of the arc PQ = _____

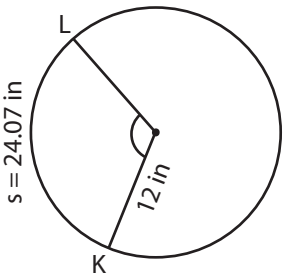
4)



Radius = _____

Central angle = _____

Length of the arc PQ = _____

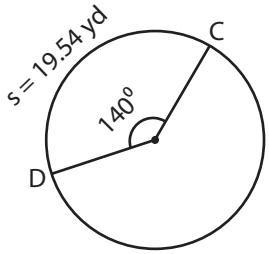


Radius = _____

Central angle = _____

Length of the arc KL = _____

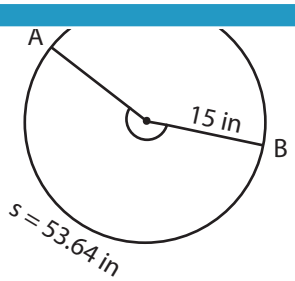
7)



Radius = _____

Central angle = _____

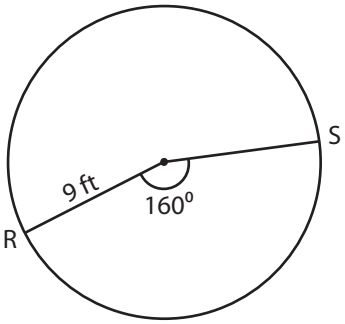
Length of the arc CD = _____



Radius = _____

Central angle = _____

Length of the arc AB = _____



Radius = _____

Central angle = _____

Length of the arc RS = _____

Name : _____ **Answer Key** Score : _____

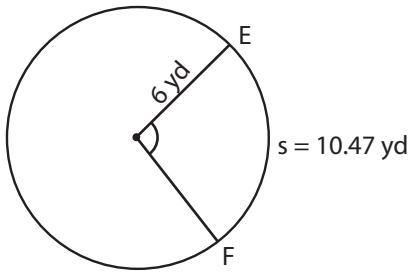
Sheet 2

Radius, Central Angle & Arc Length

$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^0} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^0}$$

Find the missing one. Round the radius and central angle to the nearest whole number.
Round the arc length to two decimal places. (use $\pi = 3.14$)

1)

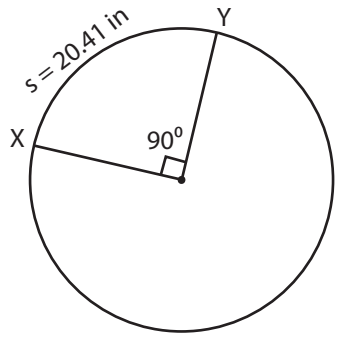


Radius = 6 y

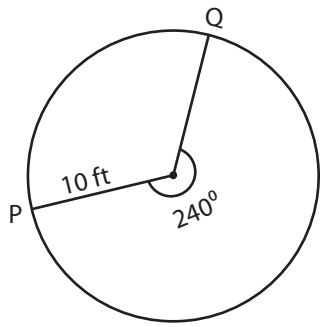
Central angle = 10(

Length of the arc EF = 10.4

2)



3)

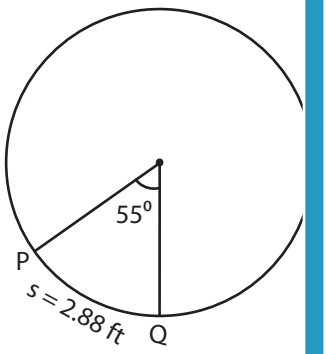


Radius = 10 ft

Central angle = 240°

Length of the arc PQ = 41.87 ft

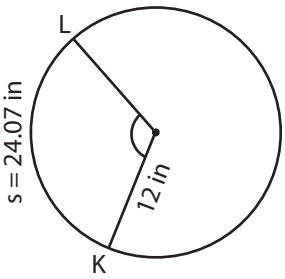
4)



Radius = 3 f

Central angle = 55

Length of the arc PQ = 2.8

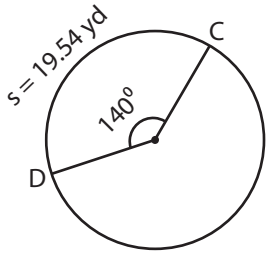


Radius = 12 in

Central angle = 115°

Length of the arc KL = 24.07 in

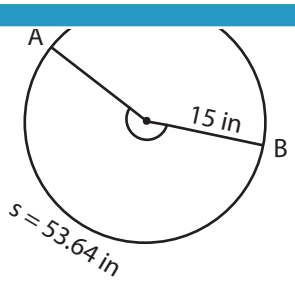
7)



Radius = 8 yd

Central angle = 140°

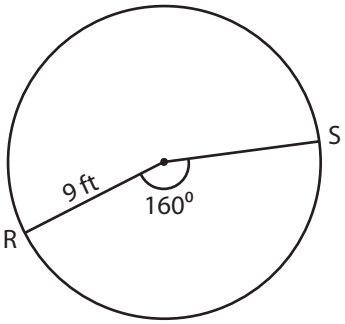
Length of the arc CD = 19.54 yd



Radius = 15 in

Central angle = 205°

Length of the arc AB = 53.64 in



Radius = 9 ft

Central angle = 160°

Length of the arc RS = 25.12 ft