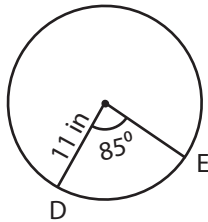


# Arc Length of the Sector

Find the radius, central angle, and arc length of each circle. Round the radius and central angle to the nearest whole number and the arc length to two decimal places. (Use  $\pi = 3.14$ )

1)

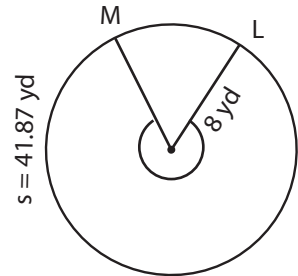


Radius = \_\_\_\_\_

Central angle = \_\_\_\_\_

Length of the arc DE = \_\_\_\_\_

2)

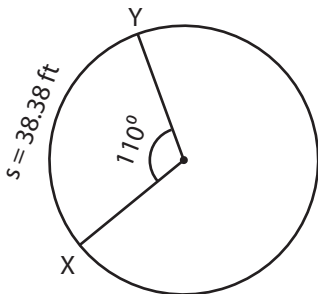


Radius = \_\_\_\_\_

Central angle = \_\_\_\_\_

Length of the arc LM = \_\_\_\_\_

3)

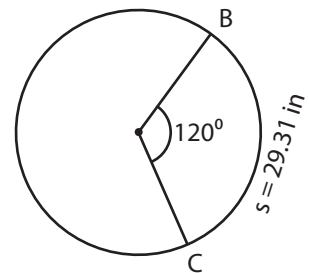


Radius = \_\_\_\_\_

Central angle = \_\_\_\_\_

Length of the arc XY = \_\_\_\_\_

4)

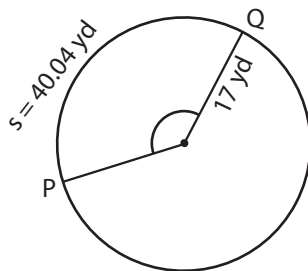


Radius = \_\_\_\_\_

Central angle = \_\_\_\_\_

Length of the arc JK = \_\_\_\_\_

5)

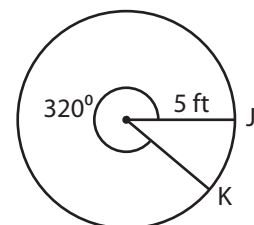


Radius = \_\_\_\_\_

Central angle = \_\_\_\_\_

Length of the arc PQ = \_\_\_\_\_

6)



Radius = \_\_\_\_\_

Central angle = \_\_\_\_\_

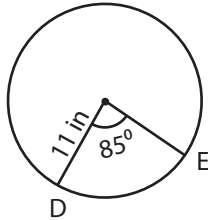
Length of the arc BC = \_\_\_\_\_

# Arc Length of the Sector

Answer Key

Find the radius, central angle, and arc length of each circle. Round the radius and central angle to the nearest whole number and the arc length to two decimal places. (Use  $\pi = 3.14$ )

1)

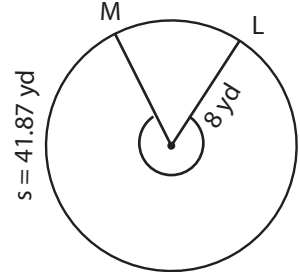


Radius = 11 in

Central angle = 85°

Length of the arc DE = 16.31 in

2)

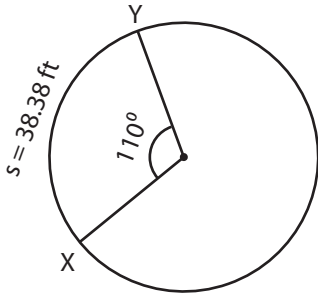


Radius = 8 yd

Central angle = 300°

Length of the arc LM = 41.87 yd

3)

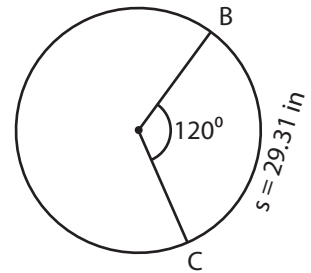


Radius = 20 ft

Central angle = 110°

Length of the arc XY = 38.38 ft

4)

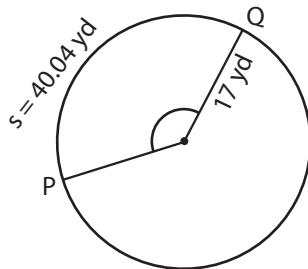


Radius = 14 in

Central angle = 120°

Length of the arc JK = 29.31 in

5)

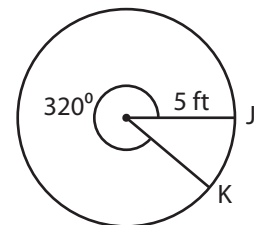


Radius = 17 yd

Central angle = 135°

Length of the arc PQ = 40.04 yd

6)



Radius = 5 ft

Central angle = 320°

Length of the arc BC = 27.91 ft