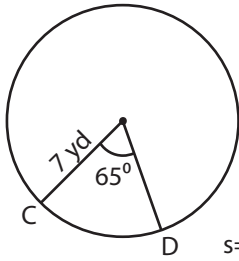


**Length of Arc**

Example:



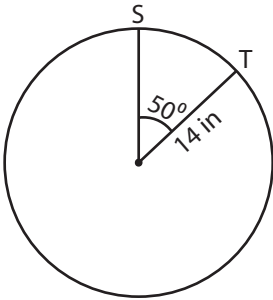
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{65^\circ \times 3.14 \times 7}{180^\circ}$$

Length of the arc CD = **7.94 yd**

Find the arc length of each sector. Round the answer to two decimal places. ( use  $\pi=3.14$  )

1)



Length of the arc ST = \_\_\_\_\_

2)



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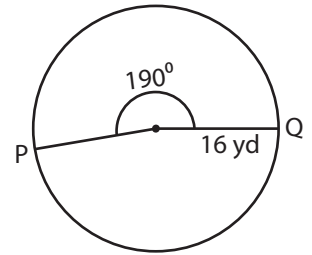
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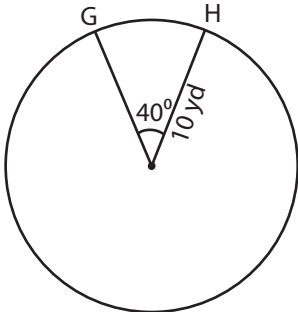
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3)

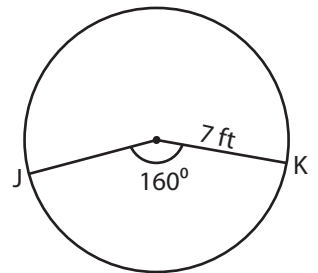


Length of the arc PQ = \_\_\_\_\_

4)

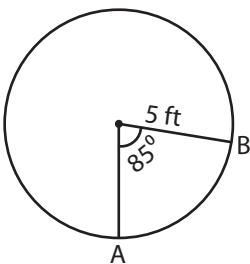


Length of the arc GH = \_\_\_\_\_

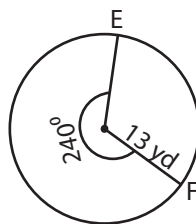


Length of the arc JK = \_\_\_\_\_

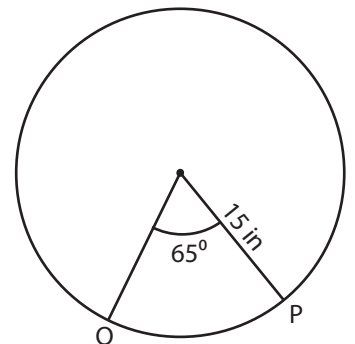
7)



Length of the arc AB = \_\_\_\_\_



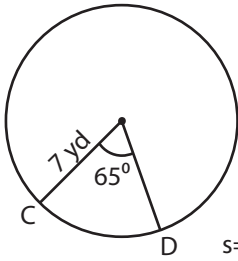
Length of the arc EF = \_\_\_\_\_



Length of the arc OP = \_\_\_\_\_

**Length of Arc**

Example:



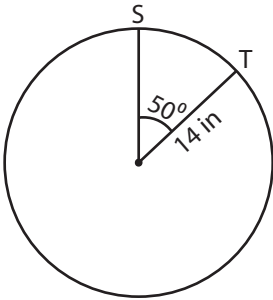
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{65^\circ \times 3.14 \times 7}{180^\circ}$$

Length of the arc CD = **7.94 yd**

Find the arc length of each sector. Round the answer to two decimal places. ( use  $\pi=3.14$  )

1)

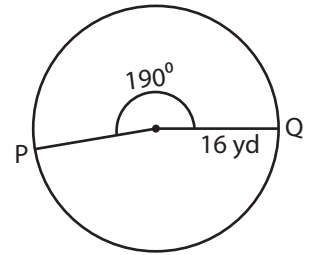


Length of the arc ST = **12.27**

2)

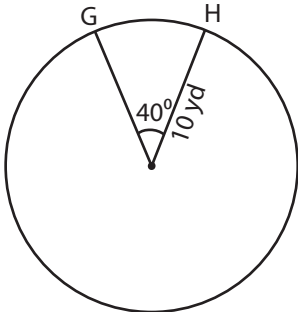


3)



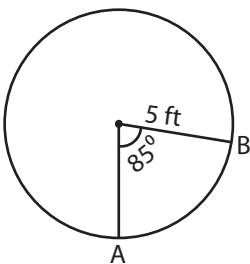
Length of the arc PQ = **53.03 yd**

4)

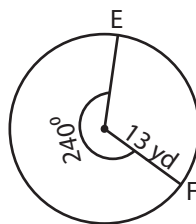


Length of the arc GH = **6.98**

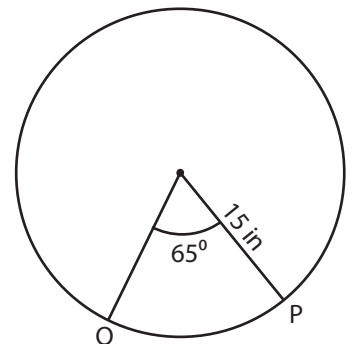
7)



Length of the arc AB = **7.41 ft**



Length of the arc EF = **54.43 yd**



Length of the arc OP = **17.01 in**

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