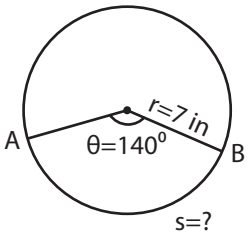
Name : _____ Score : _____

Sheet 1

Length of Arc

Example:



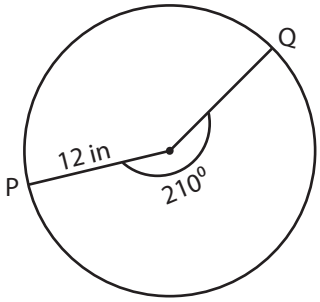
Arc length of a sector (s) = $\frac{\text{central angle}}{180^o} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^o}$

$= \frac{140^o \times 3.14 \times 7}{180^o}$

Length of the arc AB = **17.10 in**

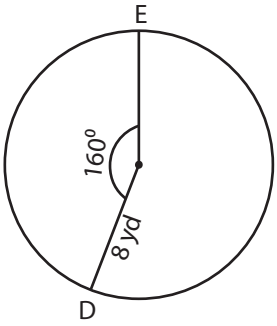
Find the arc length of each sector. Round the answer to two decimal places. (use π=3.14)

1)



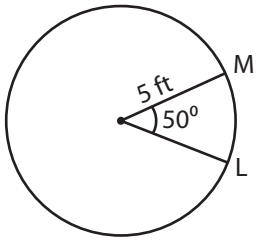
Length of the arc PQ = _____

2)



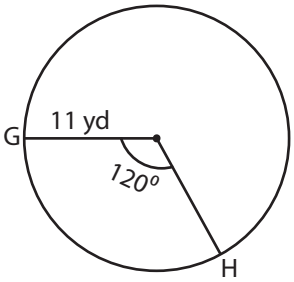
Length of the arc DE = _____

3)



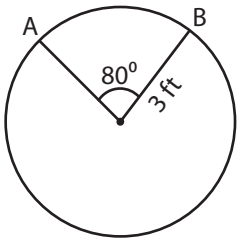
Length of the arc LM = _____

4)



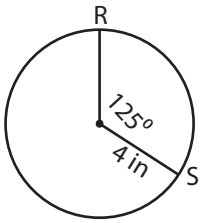
Length of the arc GH = _____

5)



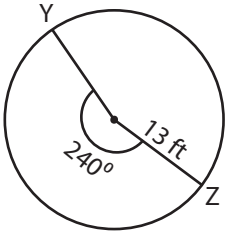
Length of the arc AB = _____

6)



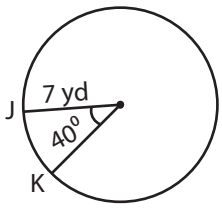
Length of the arc RS = _____

7)



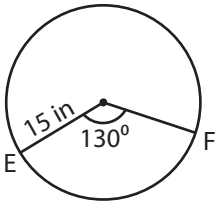
Length of the arc YZ = _____

8)



Length of the arc JK = _____

9)



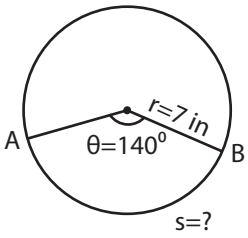
Length of the arc EF = _____

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

Sheet 1

Length of Arc

Example:



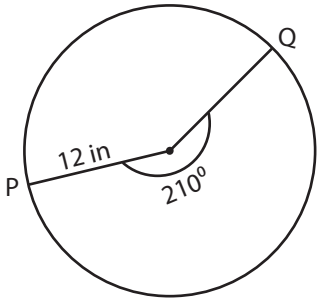
Arc length of a sector (s) = $\frac{\text{central angle}}{180^0} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^0}$

$= \frac{140^0 \times 3.14 \times 7}{180^0}$

Length of the arc AB = **17.10 in**

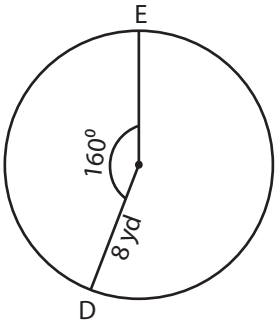
Find the arc length of each sector. Round the answer to two decimal places. (use π=3.14)

1)



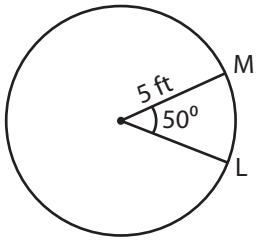
Length of the arc PQ = **43.96 in**

2)



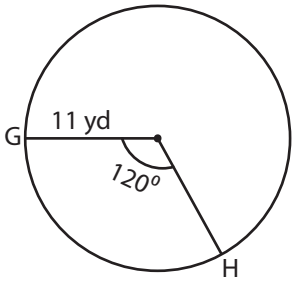
Length of the arc DE = **22.33 yd**

3)



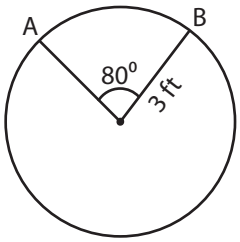
Length of the arc LM = **4.36 ft**

4)



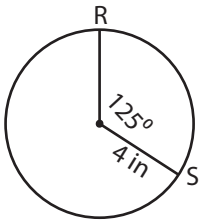
Length of the arc GH = **23.03 yd**

5)



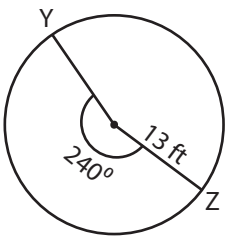
Length of the arc AB = **4.19 ft**

6)



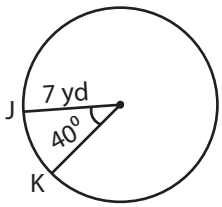
Length of the arc RS = **8.72 in**

7)



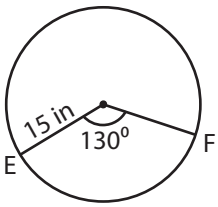
Length of the arc YZ = **54.43 ft**

8)



Length of the arc JK = **4.88 yd**

9)



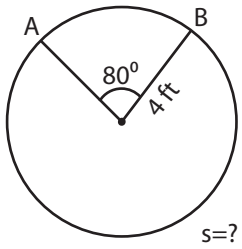
Length of the arc EF = **34.02 in**

Name : _____ Score : _____

Sheet 2

Length of Arc

Example:



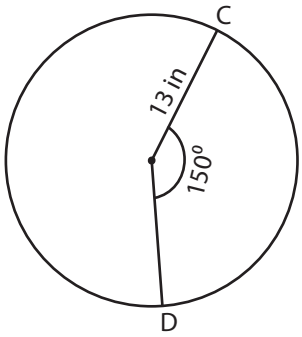
Arc length of a sector (s) = $\frac{\text{central angle}}{180^0} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^0}$

$= \frac{80^0 \times 3.14 \times 4}{180^0}$

Length of the arc AB = **5.58 ft**

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

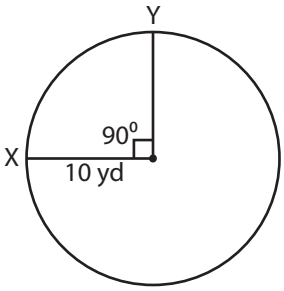
1)



Length of the arc CD = _____

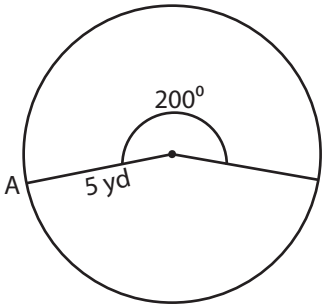
2)

3)

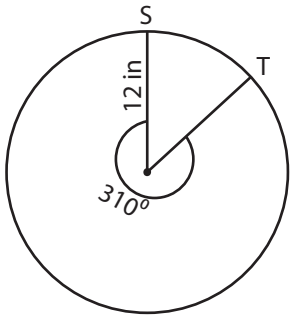


h of the arc XY = _____

4)

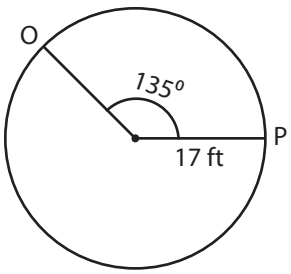


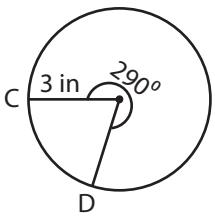
Length of the arc AB = _____

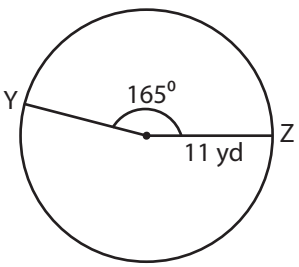


h of the arc ST = _____

7)







Length of the arc OP = _____ Length of the arc CD = _____ Length of the arc YZ = _____

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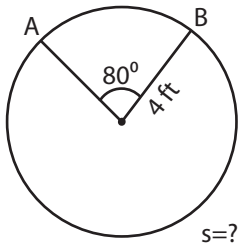
Sheet 2

Length of Arc

Example:



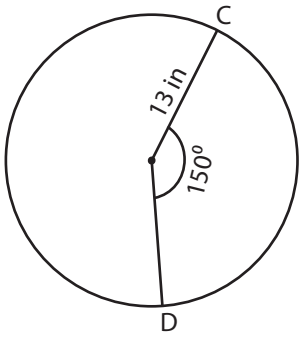
Arc length of a sector (s) = $\frac{\text{central angle}}{180^0} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^0}$

$= \frac{80^0 \times 3.14 \times 4}{180^0}$

Length of the arc AB = **5.58 ft**

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

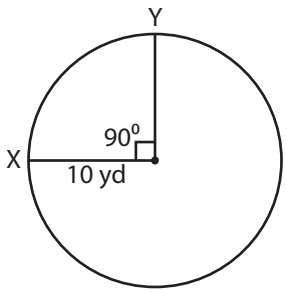
1)



Length of the arc CD = **34.02**

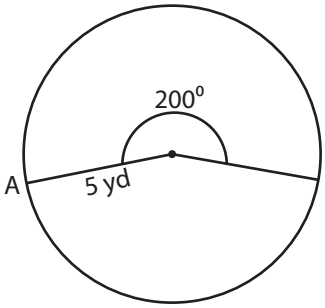
2)

3)

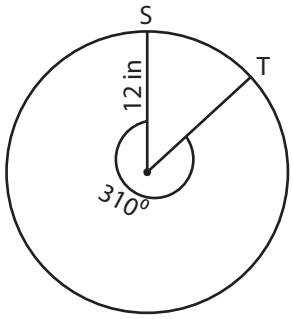


h of the arc XY = **15.7 yd**

4)

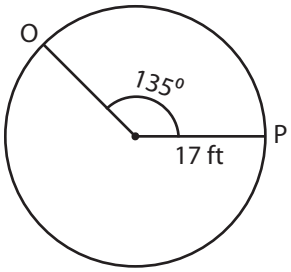


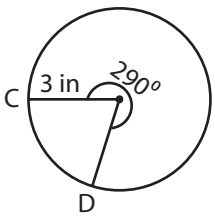
Length of the arc AB = **17.44**

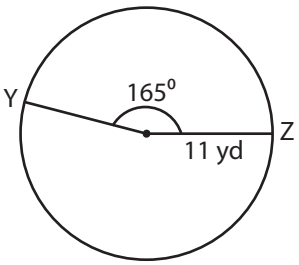


h of the arc ST = **64.89 in**

7)







Length of the arc OP = **40.04 ft** Length of the arc CD = **15.18 in** Length of the arc YZ = **31.66 yd**

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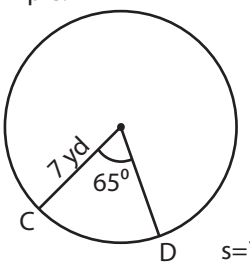
Sheet 3

Length of Arc

Example:



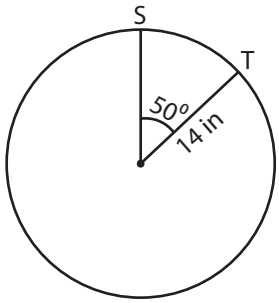
Arc length of a sector (s) = $\frac{\text{central angle}}{180^0}$ x π x radius = $\frac{\theta \times \pi \times r}{180^0}$

$= \frac{65^0 \times 3.14 \times 7}{180^0}$

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

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

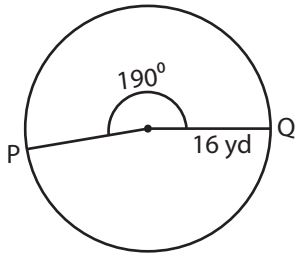
1)



Length of the arc ST = _____

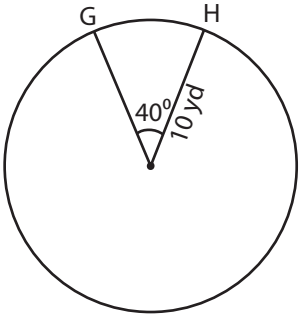
2)

3)

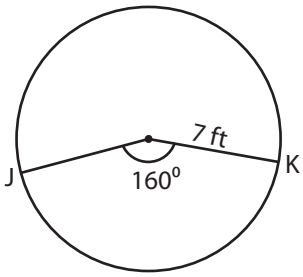


h of the arc PQ = _____

4)

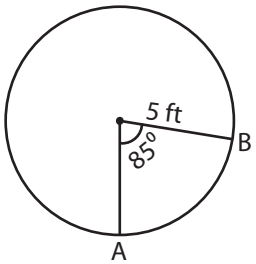


Length of the arc GH = _____

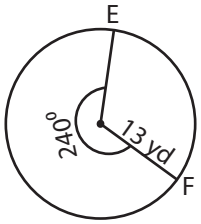


h of the arc JK = _____

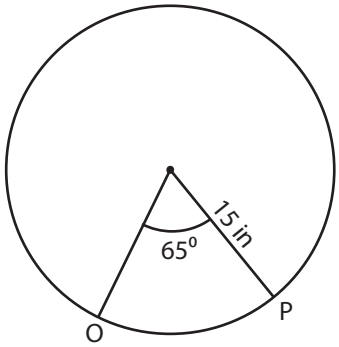
7)



Length of the arc AB = _____



Length of the arc EF = _____



Length of the arc OP = _____

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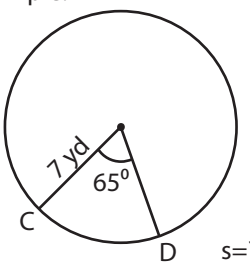
Sheet 3

Length of Arc

Example:



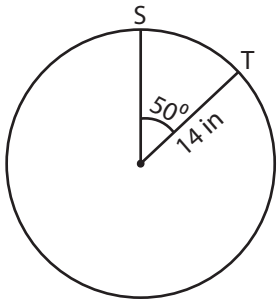
Arc length of a sector (s) = $\frac{\text{central angle}}{180^0}$ x π x radius = $\frac{\theta \times \pi \times r}{180^0}$

$= \frac{65^0 \times 3.14 \times 7}{180^0}$

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

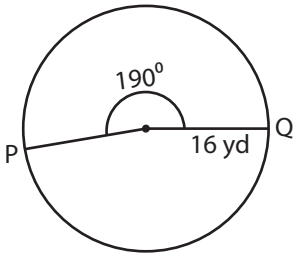
Find the arc length of each sector. Round the answer to two decimal places. (use π=3.14)

1)



2)

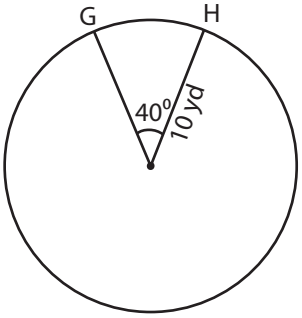
3)

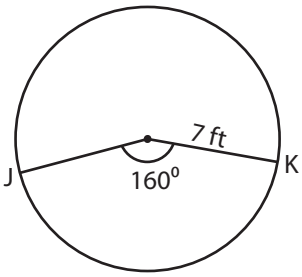


Length of the arc ST = **12.21**

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

4)

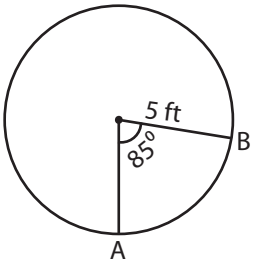


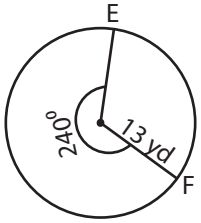


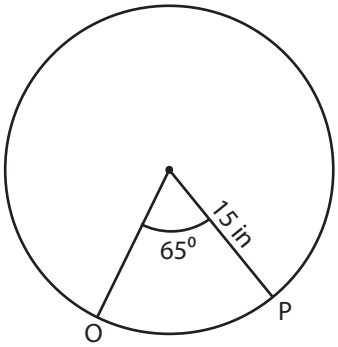
Length of the arc GH = **6.98**

Length of the arc JK = **19.54 ft**

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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