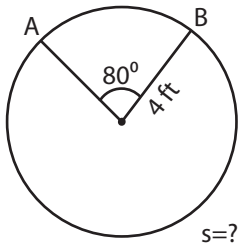
Name : _____ Score : _____

Sheet 2

Length of Arc

Example:



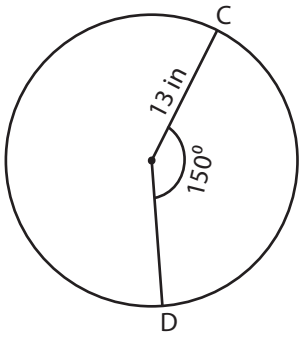
Arc length of a sector (s) = $\frac{\text{central angle}}{180^0} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^0}$

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

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)

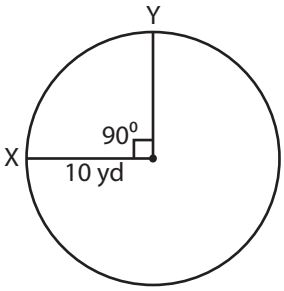
1)



Length of the arc CD = _____

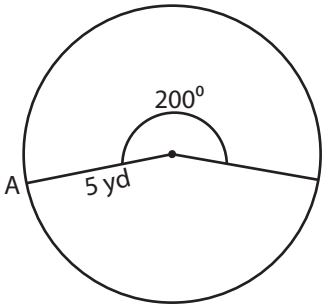
2)

3)

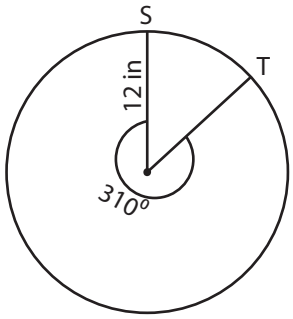


h of the arc XY = _____

4)

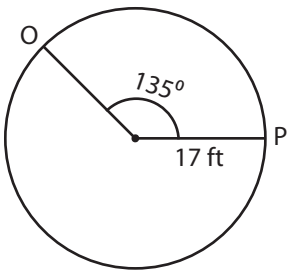


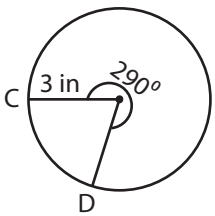
Length of the arc AB = _____

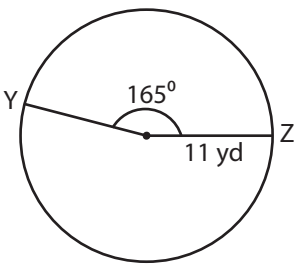


h of the arc ST = _____

7)







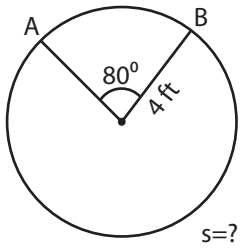
Length of the arc OP = _____ Length of the arc CD = _____ Length of the arc YZ = _____

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

Sheet 2

Length of Arc

Example:



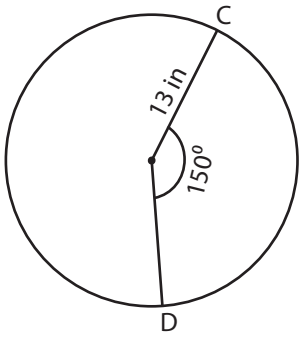
Arc length of a sector (s) = $\frac{\text{central angle}}{180^0} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^0}$

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

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)

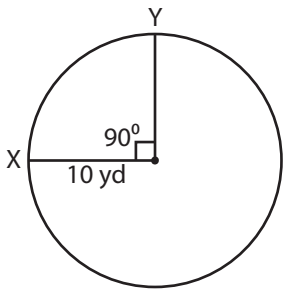
1)



Length of the arc CD = **34.02**

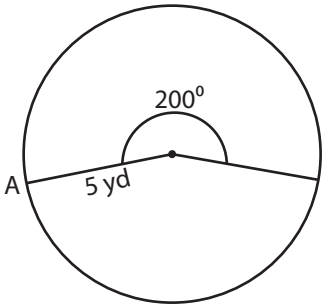
2)

3)

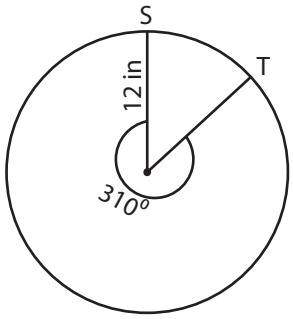


h of the arc XY = **15.7 yd**

4)

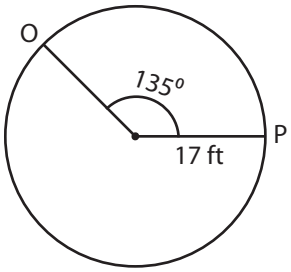


Length of the arc AB = **17.44**

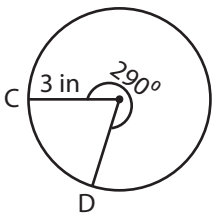


h of the arc ST = **64.89 in**

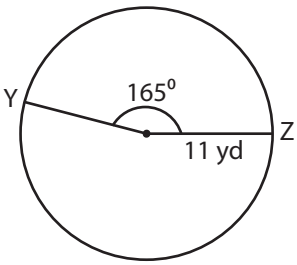
7)



Length of the arc OP = **40.04 ft**



Length of the arc CD = **15.18 in**



Length of the arc YZ = **31.66 yd**