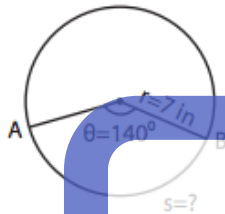


Name: _____

Date: _____

Arc Length of a Sector

Example:



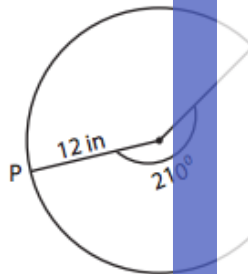
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

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

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

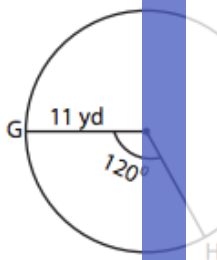
Find the arc length of each

1)



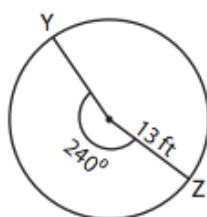
Length of the arc PQ = _____

4)

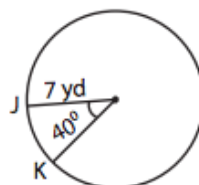


Length of the arc GH = _____

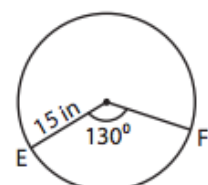
7)



Length of the arc YZ = _____



Length of the arc JK = _____



Length of the arc EF = _____

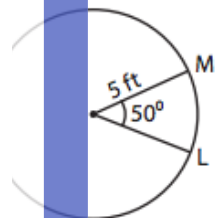
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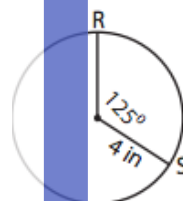
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Length of the arc LM = _____



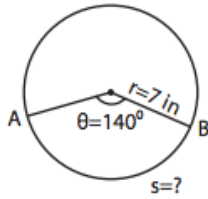
Length of the arc RS = _____

8)

9)

Answers

Example:



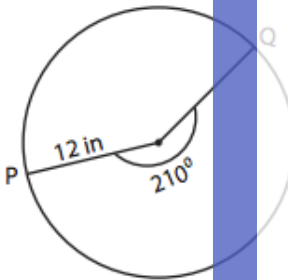
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

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

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

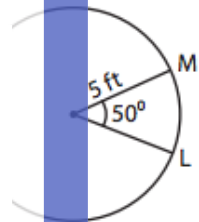
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



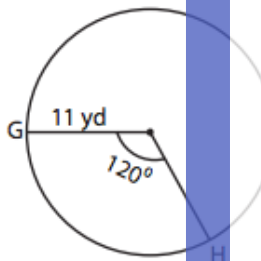
Length of the arc PQ = **43.9**

2)



arc LM = **4.36 ft**

4)

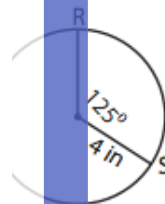


Length of the arc GH = **23.4**

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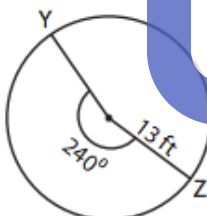


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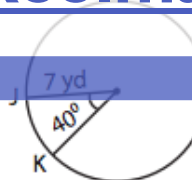
arc RS = **8.72 in**

7)



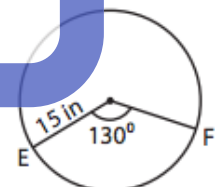
Length of the arc YZ = **54.43 ft**

8)



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

9)



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

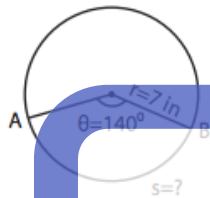
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Name: _____

Date: _____

Arc Length of a Sector

Example:



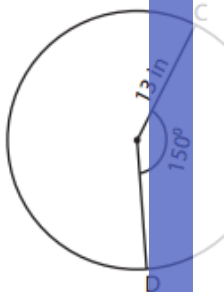
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

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

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

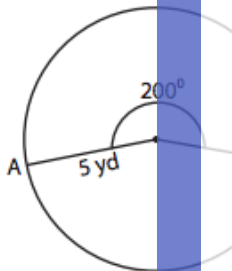
Find the arc length of each

1)



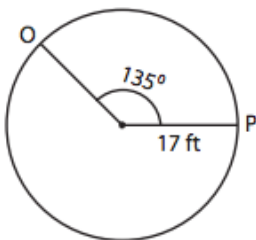
Length of the arc CD = _____

4)



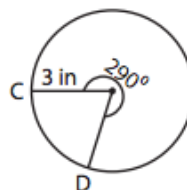
Length of the arc AB = _____

7)



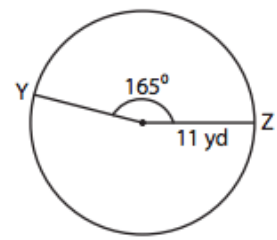
Length of the arc OP = _____

8)



Length of the arc CD = _____

9)



Length of the arc YZ = _____

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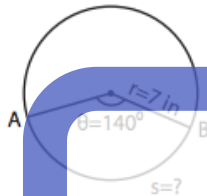
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Arc Length of a Sector

Answers

Example:

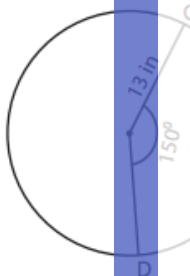
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$



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

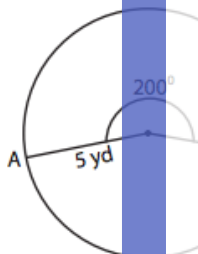
Find the arc length of e

1)



Length of the arc CD = **15.7 yd**

4)

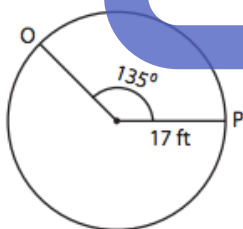


Length of the arc AB = **17.44 yd**

Length of the arc EF = **3.14 ft**

Length 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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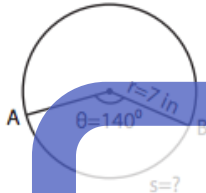
Name: _____

Date: _____

Arc Length of a Sector

Example:

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

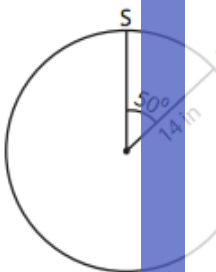


$$= \frac{140^\circ \times 3.14 \times 7}{180^\circ}$$

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

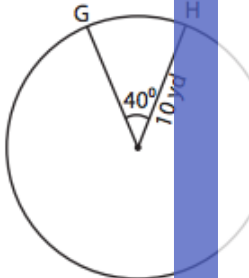
Find the arc length of each

1)



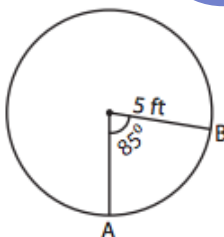
Length of the arc ST = _____

4)



Length of the arc GH = _____

7)



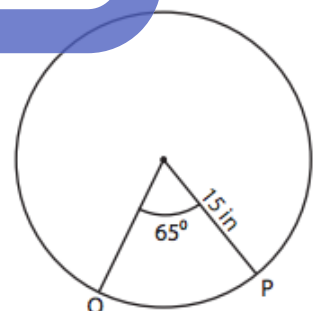
Length of the arc AB = _____

8)



Length of the arc EF = _____

9)



Length of the arc OP = _____

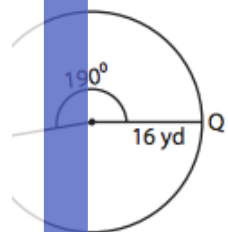
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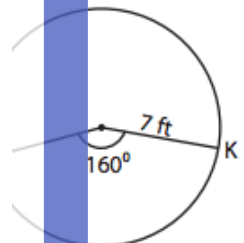
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arc PQ = _____



Length of the arc JK = _____

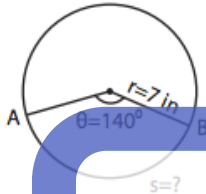
Arc Length of a Sector

Answers

Example:

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

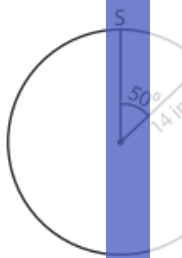
$$= \frac{140^\circ \times 3.14 \times 7}{180^\circ}$$



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

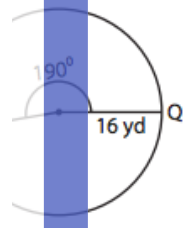
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



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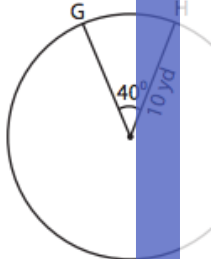
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Length of the arc ST =

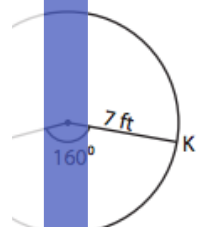
s PQ = **53.03 yd**

4)



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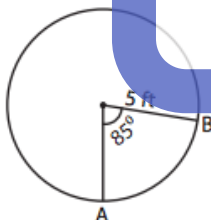


Length of the arc GH = **6.98 yd**

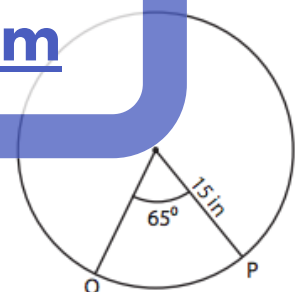
Length of the arc MN = **18.84 in**

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

7)



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

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

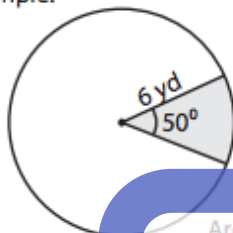
Length of the arc OP = **17.01 in**

Name: _____

Date: _____

Area of a Sector

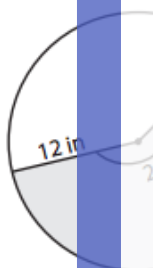
Example:



$$\begin{aligned}\text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ} \\ &= \frac{50^\circ \times 3.14 \times 6 \times 6}{360^\circ} \\ &= 15.7 \text{ yd}^2\end{aligned}$$

Find the area of each shaded region. Round the answer to two decimal places. (use $\pi=3.14$)

1)



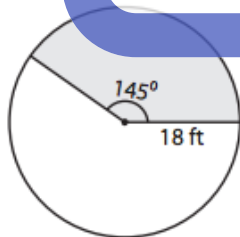
Area = _____

4)

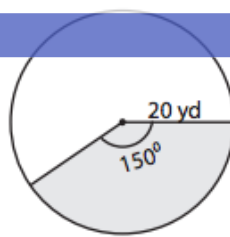


Area = _____

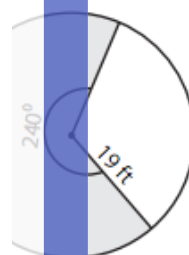
7)



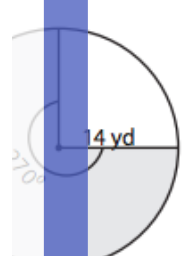
Area = _____



Area = _____



Area = _____



Area = _____



Area = _____

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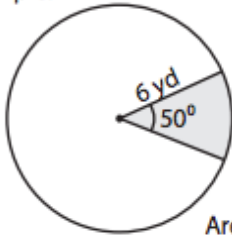
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Answers

Example:

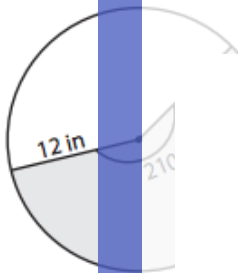


Area=?

$$\begin{aligned}\text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ} \\ &= \frac{50^\circ \times 3.14 \times 6 \times 6}{360^\circ} \\ &= \mathbf{15.7 \text{ yd}^2}\end{aligned}$$

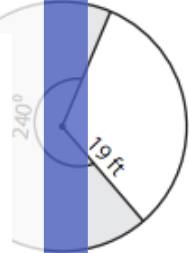
Find the area of each shaded region. Round the answer to two decimal places. (use $\pi=3.14$)

1)



Area = 263.

2)



= 755.69 ft²

4)

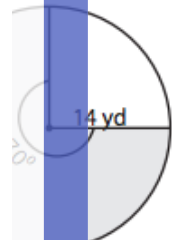


Area = 100.

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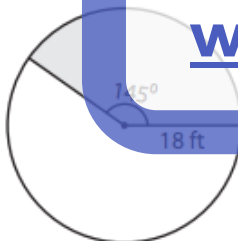


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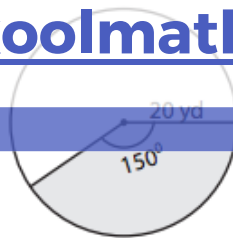
= 461.58 yd²

7)



Area = 409.77 ft²

8)



Area = 523.33 yd²

9)



Area = 412.13 in²

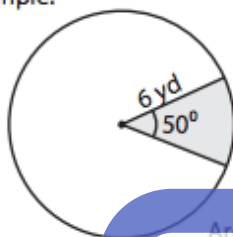
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Name: _____

Date: _____

Area of a Sector

Example:



$$\text{Area of a sector} = \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ}$$

$$= \frac{50^\circ \times 3.14 \times 6 \times 6}{360^\circ}$$

$$\text{Area} = ? \quad = 15.7 \text{ yd}^2$$

Find the area of each shaded region. Round the answer to two decimal places. (use $\pi=3.14$)

1)



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Area = _____

a = _____

4)

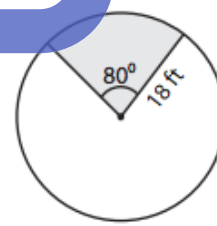
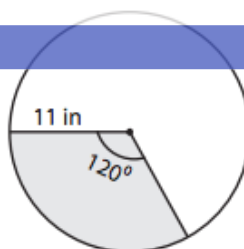
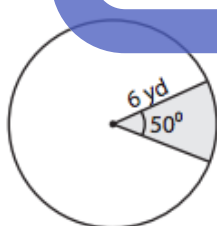
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Area = _____

Area = _____

Area = _____

7)

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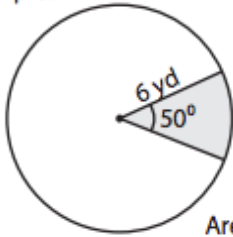
Area = _____

Area = _____

Area = _____

Answers

Example:



Area=?

$$\begin{aligned}\text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ} \\ &= \frac{50^\circ \times 3.14 \times 6 \times 6}{360^\circ} \\ &= \mathbf{15.7 \text{ yd}^2}\end{aligned}$$

Find the area of each shaded region. Round the answer to two decimal places. (use $\pi=3.14$)

1)



Area = 102.1

2)

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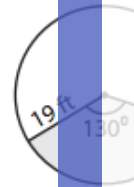
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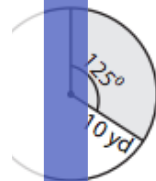
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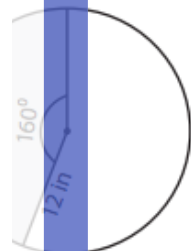
4)



Area = 409.3

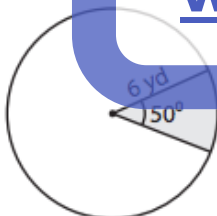


= 109.03 yd²



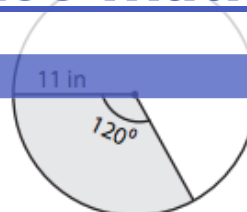
= 200.96 in²

7)



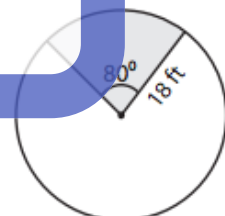
Area = 15.7 yd²

8)



Area = 126.65 in²

9)



Area = 226.08 ft²

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