

# Download File PDF Geometry Worksheet Arc Length Sector Area Segment Answers

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**Arc Length and Area of a Sector**

Example: Arc length of a sector (s) =  $\frac{\theta \times \pi \times r}{180^\circ}$  Area =  $\frac{\theta \times r^2}{2}$   
 $= \frac{150^\circ \times 3.14 \times 4}{180^\circ}$   $= \frac{10.47 \times 4}{2}$   
 $= 10.47 \text{ cm}$   $= 20.94 \text{ cm}^2$

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

1) Length of the arc MN = \_\_\_\_\_ Area of a sector = \_\_\_\_\_

2) Length of the arc OP = \_\_\_\_\_ Area of a sector = \_\_\_\_\_

3) Length of the arc EF = \_\_\_\_\_ Area of a sector = \_\_\_\_\_

4) Length of the arc JK = \_\_\_\_\_ Area of a sector = \_\_\_\_\_

5) Length of the arc GH = \_\_\_\_\_ Area of a sector = \_\_\_\_\_

6) Length of the arc AB = \_\_\_\_\_ Area of a sector = \_\_\_\_\_

7) Length of the arc CD = \_\_\_\_\_ Area of a sector = \_\_\_\_\_

8) Length of the arc PQ = \_\_\_\_\_ Area of a sector = \_\_\_\_\_

9) Length of the arc ST = \_\_\_\_\_ Area of a sector = \_\_\_\_\_

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