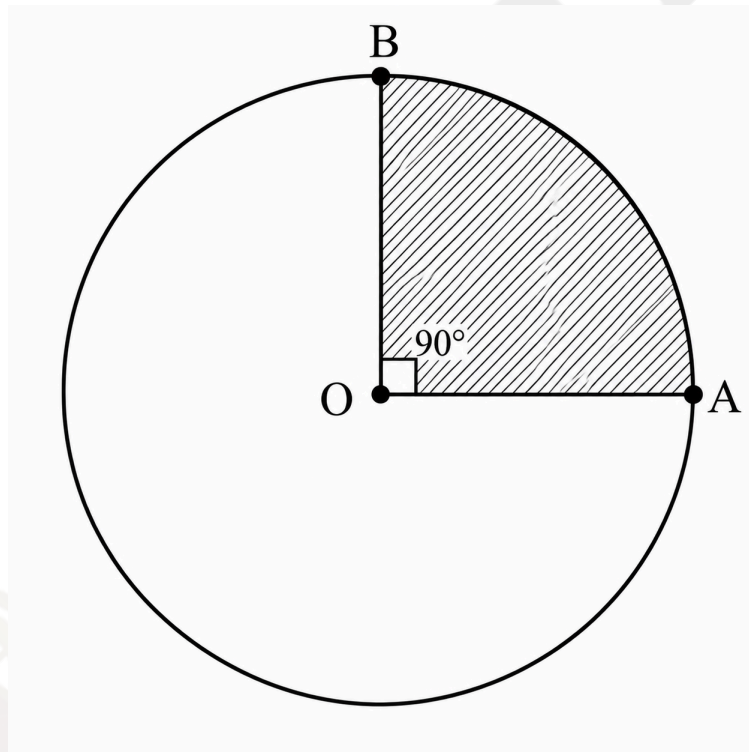


Class 10 Mathematics - Areas Related to Circles

Name: _____

Date: _____

Medium Worksheet 2



Questions

1. Find the area of the sector if radius = 14 cm.
2. Find the length of the corresponding arc.
3. What special name is given to a sector with angle 90° ?

4. What fraction of the circle does this sector represent?
5. Find the area of the complete circle.
6. Verify that the area of the sector is one-fourth of the area of the circle.

Answer Key

1. Area = $(90/360) \times (22/7) \times 14 \times 14 = 154 \text{ cm}^2$
2. Arc Length = $(90/360) \times 2 \times (22/7) \times 14 = 22 \text{ cm}$
3. Quadrant
4. $1/4$
5. 616 cm^2
6. Yes, $154 = 616/4$