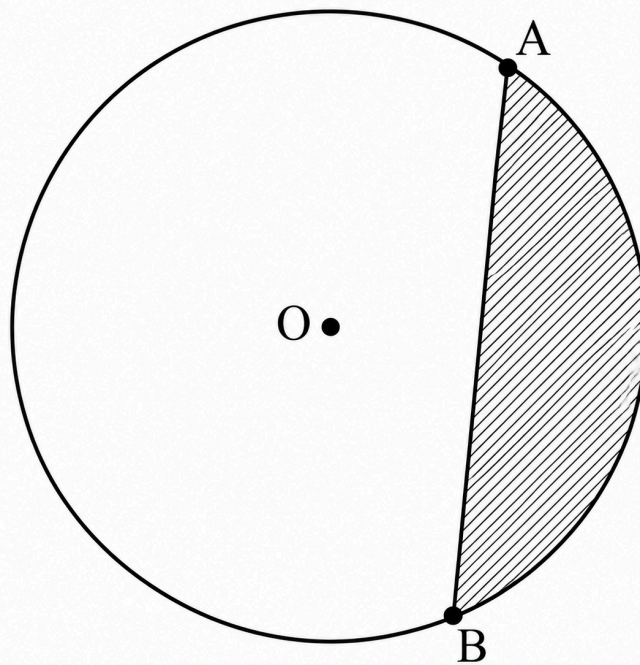


## Class 10 Mathematics - Areas Related to Circles

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Medium Worksheet 3



### Questions

1. Name the shaded region.
2. What is the difference between a sector and a segment?
3. If radius = 10 cm and  $\angle AOB = 60^\circ$ , find the area of the sector.
4. Find the area of  $\triangle AOB$ .
5. Find the area of the corresponding segment.

6. State the formula for area of a segment.

**Answer Key**

1. Segment
2. A sector is enclosed by two radii and an arc, while a segment is enclosed by a chord and an arc.
3. Area of Sector =  $52.36 \text{ cm}^2$
4. Area of Triangle AOB =  $43.3 \text{ cm}^2$
5. Area of Segment =  $52.36 - 43.3 = 9.06 \text{ cm}^2$
6. Area of Segment = Area of Sector – Area of Triangle

