

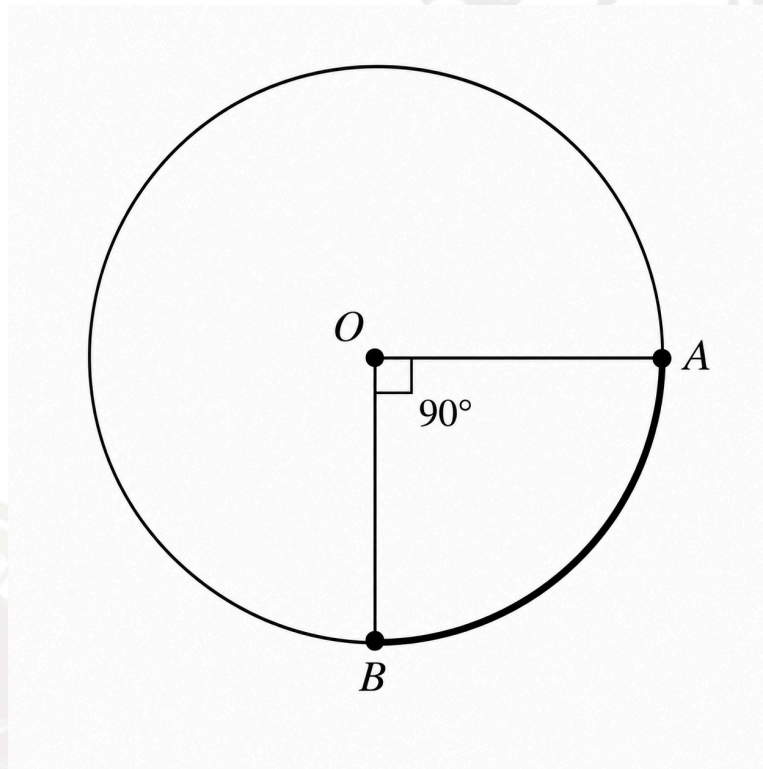
## Class 9 Mathematics - Measuring Space: Perimeter and Area

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

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

### Advanced Worksheet 2

### Questions



1. Find the length of arc  $AB$  if  $\angle AOB = 90^\circ$  and radius = 14 cm.
2. Find the length of arc  $AB$  if  $\angle AOB = 180^\circ$ .
3. Find the length of arc  $AB$  if  $\angle AOB = 270^\circ$ .

4. What fraction of the circumference is represented by a  $90^\circ$  arc?
5. What fraction of the circumference is represented by a  $180^\circ$  arc?
6. State the formula used.

**Answer Key**

1. 22 cm
2. 44 cm
3. 66 cm
4.  $\frac{1}{4}$
5.  $\frac{1}{2}$
6. Arc Length =  $(\theta/360) \times 2\pi r$