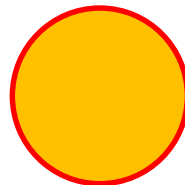




THEME: GEOMETRY AND MEASURES

TOPIC: CIRCLE PROPERTIES – Lesson 8

KAZIBA STEPHEN



9th January 2025

LEARNING OUTCOME

- By the end of this lesson you should be able to calculate the area of a sector and a segment

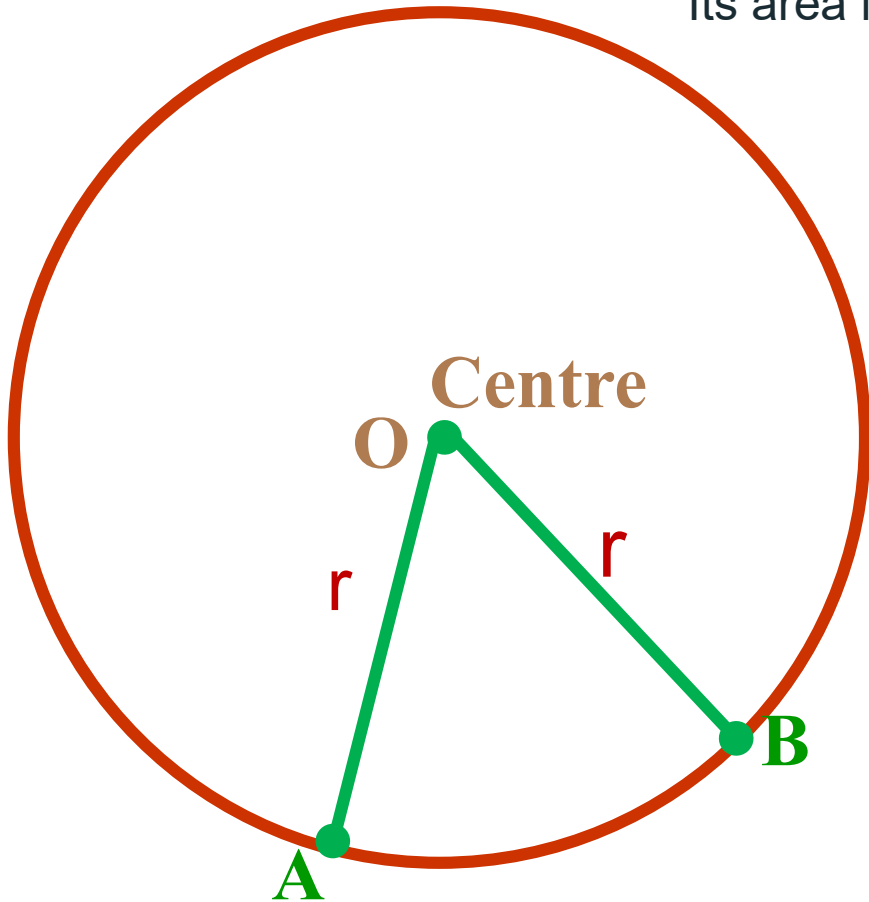
Activity

- A jewelry designer is making a pendant. The pendant will be a circular disc with the diameter of 10cm. It has a circular hole cut out of it. The radius of hole is 2cm. Find the area of the pendant.

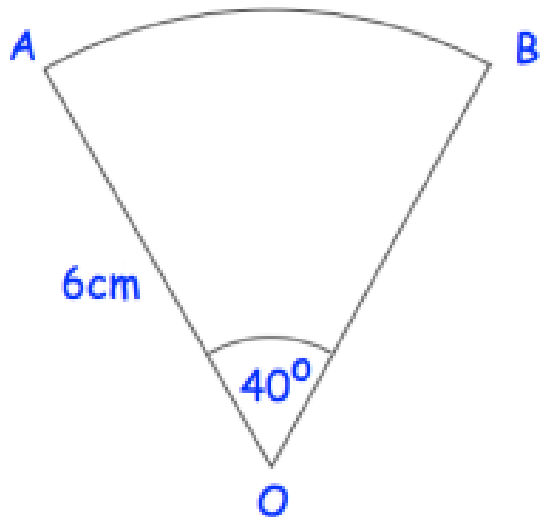


AREA OF A SECTOR

Its area is proportional to the size of the angle between the two radii.



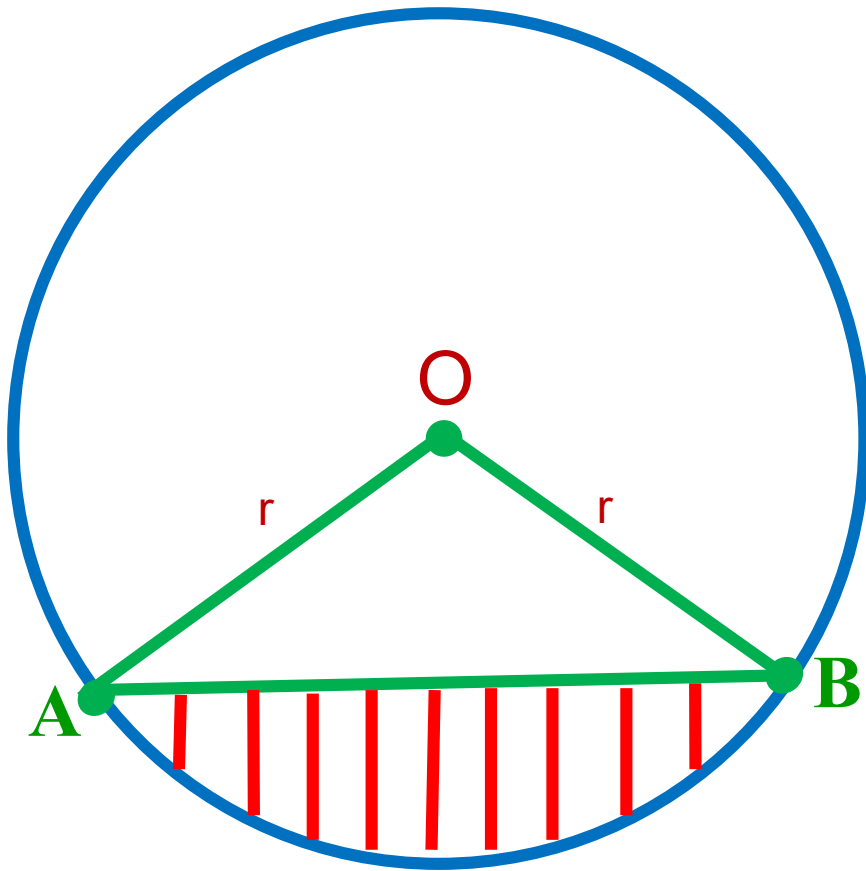
Calculate the area of the sector



A sector of a circle has an angle of 103° . If the circle has a radius of 6.8 cm, calculate the area of the sector.



Area of a segment



Calculate the area of the shaded region

