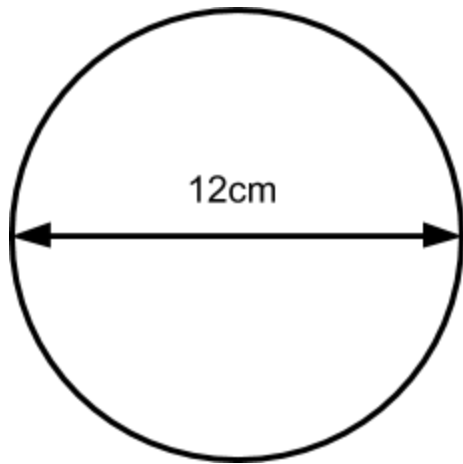


Arc Lengths- Step by Step

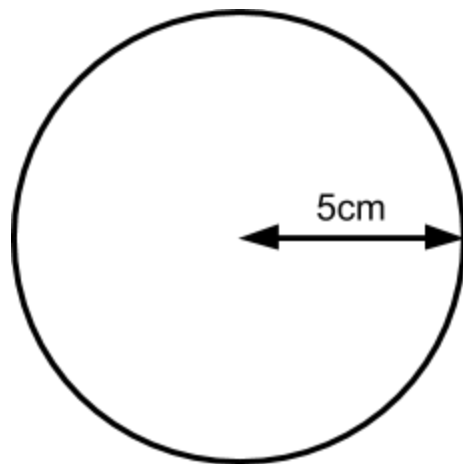
To find the Circumference (length of the line creating the circle) we use the formula
Where d is the diameter.

$$C = \pi \times d.$$

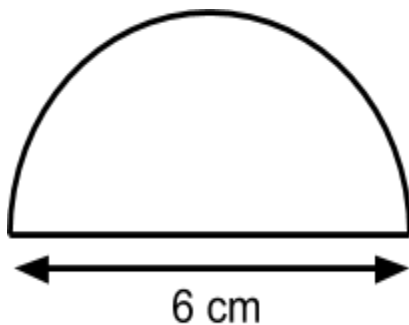
To find the Arc Length, we use the formula $\text{Arc Length} = \frac{\text{angle}}{360^\circ} \times \pi \times d$
Where *angle* is the angle given inside the circle sector.



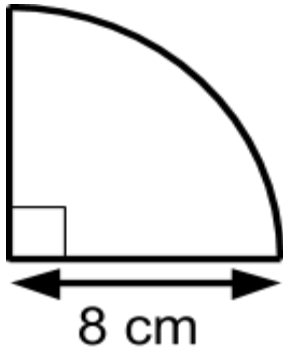
- 1) Find the circumference of the circle by:
 - a) Stating the diameter
 - b) Using $C = \pi \times \text{diameter}$



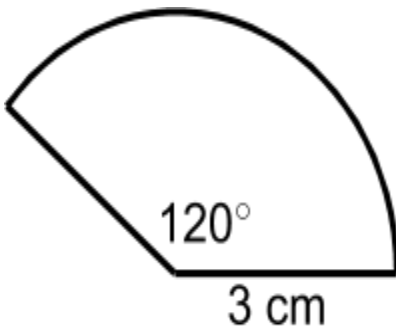
- 2) Find the circumference of the circle by:
 - a) Stating the radius
 - b) Stating the diameter
 - c) Using $C = \pi \times \text{diameter}$



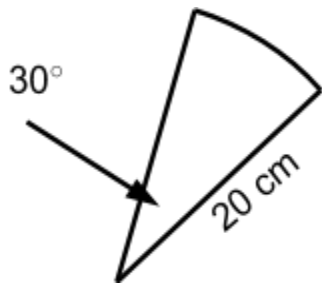
- 3) Find the Arc Length of the sector by:
 - a) Stating the Diameter
 - b) Finding Fraction: $\frac{\text{angle}}{360}$
 - c) Use the formula $\text{Arc Length} = \frac{\text{angle}}{360} \times \pi \times \text{diameter}$



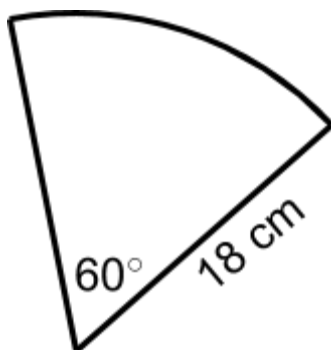
- 4) Find the Arc Length of the sector by:
- Stating the radius
 - Stating the diameter
 - Finding Fraction: $\frac{\text{angle}}{360}$
 - Use the formula Arc Length = $\frac{\text{angle}}{360} \times \pi \times \text{diameter}$



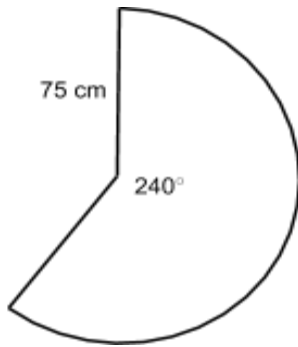
- 5) Find the Arc Length of the sector by:
- Stating the radius
 - Stating the diameter
 - Finding Fraction: $\frac{\text{angle}}{360}$
 - Use the formula Arc Length = $\frac{\text{angle}}{360} \times \pi \times \text{diameter}$



- 6) Find the Arc Length of the sector by:
- Stating the radius.
 - Stating the diameter.
 - Finding Fraction: $\frac{\text{angle}}{360}$
 - Use the formula Arc Length = $\frac{\text{angle}}{360} \times \pi \times \text{diameter}$

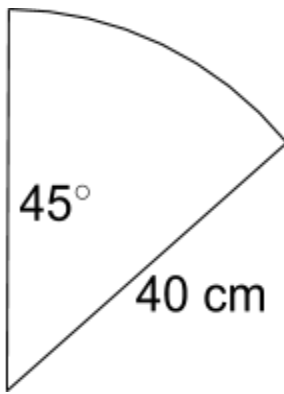


- 7) Find the Arc Length of the sector by:
- Stating the radius.
 - Stating the diameter.
 - Finding Fraction: $\frac{\text{angle}}{360}$
 - Use the formula Arc Length = $\frac{\text{angle}}{360} \times \pi \times \text{diameter}$



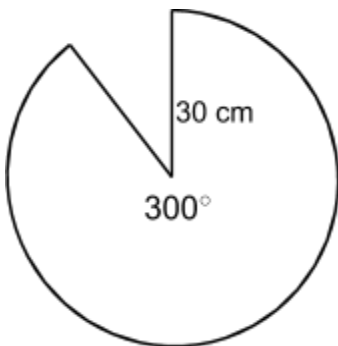
8) Find the Arc Length of the sector by:

- Stating the radius.
- Stating the diameter.
- Finding Fraction: $\frac{\text{angle}}{360}$
- Use the formula Arc Length = $\frac{\text{angle}}{360} \times \pi \times \text{diameter}$



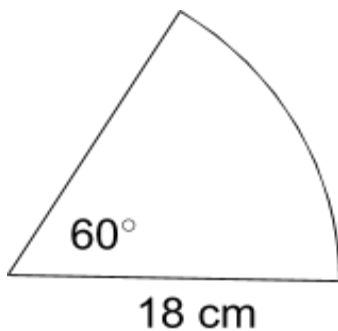
9) Find the Arc Length of the sector by:

- Stating the radius.
- Stating the diameter.
- Finding Fraction: $\frac{\text{angle}}{360}$
- Use the formula Arc Length = $\frac{\text{angle}}{360} \times \pi \times \text{diameter}$



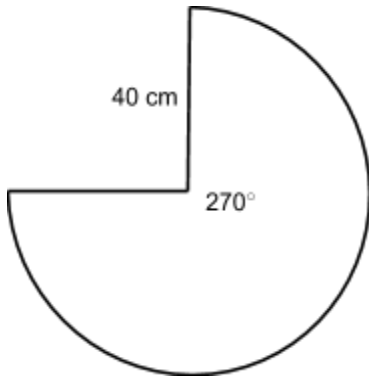
10) Find the Arc Length of the sector by:

- Stating the radius.
- Stating the diameter.
- Finding Fraction: $\frac{\text{angle}}{360}$
- Use the formula Arc Length = $\frac{\text{angle}}{360} \times \pi \times \text{diameter}$

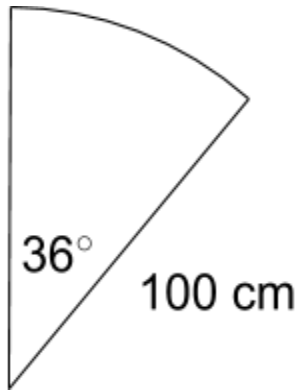


11) Find the Arc Length of the sector by:

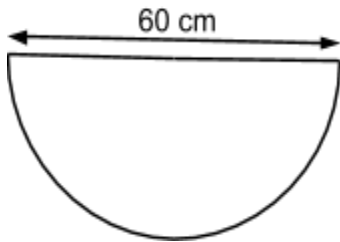
- Stating the radius.
- Stating the diameter.
- Finding Fraction: $\frac{\text{angle}}{360}$
- Use the formula Arc Length = $\frac{\text{angle}}{360} \times \pi \times \text{diameter}$



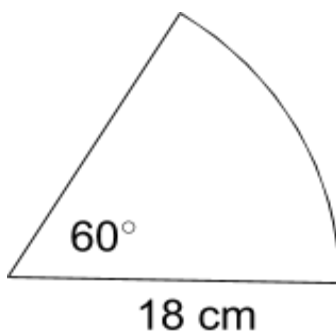
- 12) Find the Arc Length of the sector by:
- Finding the diameter.
 - Finding Fraction: $\frac{angle}{360}$
 - Use the formula Arc Length = $\frac{angle}{360} \times \pi \times diameter$



- 13) Find the Arc Length of the sector by:
- Finding the diameter.
 - Finding Fraction: $\frac{angle}{360}$
 - Use the formula Arc Length = $\frac{angle}{360} \times \pi \times diameter$



- 14) Find the Arc Length of the sector



- 15) Find the Arc Length of the sector