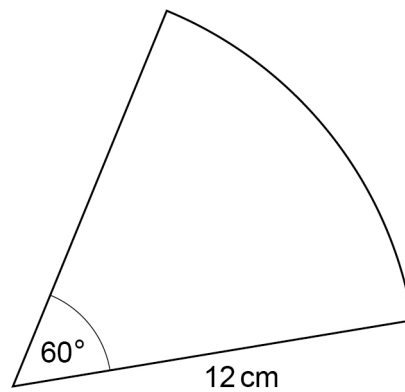


1

A sector has radius 12 cm and angle 60° Not drawn
accurately

Work out the length of the arc.

Give your answer in terms of π

[3 marks]

$$\text{circumference} = 2\pi \times \text{radius} \quad \checkmark (1)$$

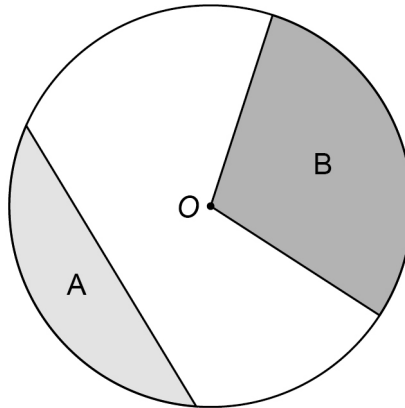
$$\text{length of arc} = \frac{60^\circ}{360^\circ} \times 2\pi \times \text{radius} \quad \checkmark (1)$$

$$= \frac{1}{6} \times 2\pi \times 12$$

$$= 4\pi \quad \checkmark (1)$$

Answer 4 π cm

- 2 The diagram shows a circle, centre O , and three straight lines.



Use **one** word to describe each shaded region.

Choose from

arc	chord	sector	segment	tangent
-----	-------	--------	---------	---------

[2 marks]

Region A segment / ①

Region B sector ✓ ①