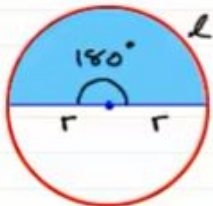
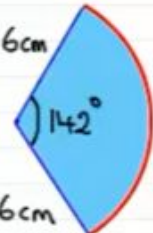
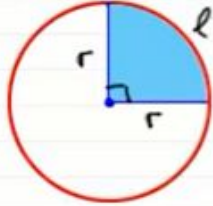
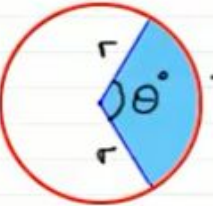





Air maths tuition

Interact, engage and perform

## Arc length and Area of Sectors (degrees)

	$\text{Area} = \frac{180}{360} \times \pi r^2$ $\text{Arc length} = \frac{180}{360} \times 2\pi r$		Find the area and perimeter of the sector
	$\text{Area} = \frac{90}{360} \times \pi r^2$ $\text{Arc length} = \frac{90}{360} \times 2\pi r$	$\text{Area} = \frac{142}{360} \times \pi (6)^2$ $= 14.2\pi$ $= 44.61\dots$ $= 44.6 \text{ cm}^2 \text{ (3sf)}$	
	$\text{Area} = \frac{\theta}{360} \times \pi r^2$ $\text{Arc length} = \frac{\theta}{360} \times 2\pi r$	$\text{Perimeter} = \frac{142}{360} \times 2\pi(6) + 6 + 6$ $= 26.870\dots$ $= 26.9 \text{ cm (3sf)}$	

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