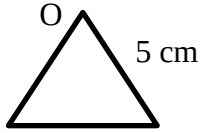


Question			Answer	Marks	AO	Guidance
4			 A 5 cm B Angle AOB = 60° or $\frac{\pi}{3}$ (equilateral triangle) Angle in major sector is $2\pi - \frac{\pi}{3} \left(= \frac{5\pi}{3} \right)$ Area of major sector is $\frac{1}{2}r^2\theta = \frac{1}{2} \times 5^2 \times \frac{5\pi}{3}$ $= \frac{125\pi}{6}$	B1	1.1a	May be implied by $\frac{1}{6}$ or $\frac{5}{6}$ seen
			M1	3.1a	Uses their AOB to find the angle in the major sector soi	
			M1	1.1a	Uses sector formula with their θ soi	
			A1	1.1	Accept awrt 65.4 or 65.5	
			Alternative method for last 3 marks			M1
Area of minor sector is $\frac{1}{2}r^2\theta = \frac{1}{2} \times 5^2 \times \frac{\pi}{3} = \frac{25\pi}{6}$ Area of major sector is $25\pi - \frac{25\pi}{6}$ $= \frac{125\pi}{6}$			M1		Subtracts from 25π soi Do not allow for the difference between the areas of the circle and the triangle	
			A1		Accept awrt 65.4 or 65.5	
				[4]		