

Question	Answer	Mark	Mark scheme	Additional guidance
18	25.64	P1	for identifying that angle $ABC = 90^\circ$ or angle $OCB = 38^\circ$ or $ABO = 52^\circ$	
		P1	for process to find size of angle AOB , eg $180 - (180 - 38 - 38) (= 76)$ or $180 - 52 - 52 (= 76)$	
		P1	for process to find area of sector, eg $\frac{76}{360} \times \pi \times 12^2 (= 95.50\dots)$ or $\frac{[AOB]}{360} \times \pi \times 12^2$	Implied by $\frac{152}{5} \pi$ [AOB] must be clearly identified and not 38 or 52 Condone use of $r = 6$
		P1	for process to find area of triangle AOB , eg $\frac{1}{2} \times 12 \times 12 \times \sin 76 (= 69.86\dots)$ or $\frac{1}{2} \times 12 \times 12 \times \sin [AOB]$	[AOB] must be clearly identified and not 38 or 52 Condone use of $r = 6$
		A1	for answer in range 25.5 to 25.7	