26	$1600 = \frac{1}{3} \times \pi \times r^2 \times 25$ oe		6	M1	for substituting into volume formula for cone correctly and equating to 1600
	eg $r = \sqrt{\frac{1600}{\frac{1}{3} \pi \times 25}}$ or $r = \sqrt{\frac{192}{\pi}} (= \sqrt{61.1(154..)} = 7.8176...)$			M1	dep for correct rearrangement of volume formula for r
	$l = \sqrt{"7.817..."^2 + 25^2} (= \sqrt{686.1154...} = 26.193...)$			M1	Dep on M2 correct method to find slant height of cone (radius of sector)
	$2 \times \pi \times$ "7.817…" (= 49.1196…) **or** $\pi \times "7.817..." \times "26.193..." (= 643.315...)$			M1	for using $C = 2\pi r$ oe using figures from correct method **or** for using $A = \pi rl$ using figures from correct method
	$"49.1196..." = 2 \times \pi \times "26.193..." \times \frac{x}{360}$ **or** $"643.315..." = \pi \times "26.193..."^2 \times \frac{x}{360}$			M1	for using arc length = $2\pi r \times \frac{x}{360}$ **or** for using area of sector = $\pi r^2 \times \frac{x}{360}$
		107°		A1	for 107° - 108°
					Total 6 marks

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