

Q	Marking Instructions	AO	Marks	Typical Solution
5	Uses sine rule with 125° (or 55°)	1.1a	M1	$\frac{AB}{\sin 30} = \frac{40}{\sin 125}$
	Finds one of the sides as an expression or value given to at least 1 decimal place $AB = 24.4$ or $AC = 20.6$	1.1b	A1	$AB = \frac{40 \sin 30}{\sin 125}$ $AB = 24.415$
	Uses $\frac{1}{2} ab \sin C$ to find area for 'their' a , b and c OE NB Must be a valid set	1.1a	M1	$\text{Area} = \frac{1}{2} \times 40 \times \frac{40 \sin 30}{\sin 125} \times \sin 25$
	Obtains the correct volume of 61900 CAO Condone missing units	1.1b	A1	$= 206.4$ $\text{Volume} = 61900 \text{ mm}^3$
	Total			4