26		eg $\frac{1}{2} \times \frac{4}{3}\pi x^3 = 6174\pi$		5	M1	oe for forming a correct equation; allow use of any letter	
		$(x =) \sqrt[3]{\frac{6174\pi \times 3}{2\pi}}$ $(= \sqrt[3]{9261} = 21)$			M1	for a correct method to find the radius of the hemisphere	
		eg $\pi([21])^2 - \pi([21] - 2)^2$ $(= 441\pi - 361\pi = 80\pi)$ oe **or** $2\pi([21])^2 + 2\pi([21] - 2)^2$ $(= 882\pi + 722\pi = 1604\pi)$ oe			M1ft	for a method to find the area of the top of the bowl **or** the total area of the two curved surfaces of the bowl where [21] is what they believe to be radius of the hemisphere	M2 for use of formula for total surface area of hemispherical shell in a complete method, eg $3\pi([21])^2 + \pi([21] - 2)^2$ oe If not M2, allow M1 for this formula used with omission of π eg $3([21])^2 + ([21] - 2)^2$
		"1604π" + "80π"			M1ft	ft their [21] for a complete method	
		Correct answer only scores full marks (unless from obviously incorrect working)	1684π		A1	cao SCB4 for 2028π (use of 23 as the outer radius)	
							Total 5 marks

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