SECTION B

8	Enlargement **only** Scale factor −2 Centre (0, 1)	1 1 1 **[3]**	SC1 for enlargement (sf 2) **and** 180° rotation (or half turn) in either order. (no other trans. mentioned)
9	$b=\frac{A-2wh}{2w+2h}$ oe (mark final answer)	3 **[3]**	M2 $A-2wh=b(2w+2h)$ or better. **or** M1 $A-2wh=2wb+2bh$ after 0 SC1 for correct factorising of' 'their 2wb+2bh'
10	3 of 0.23, 0.32, 0.16, 0.01 (or multiples) vertical axis scaled and labelled or key all bars correct in height and width within 1 mm	M1 A1 A1 **[3]**	in table or from bar heights in correct ratio scale & 'frequency density' suff. if heights are 0.23, 0.32 etc, units needed otherwise.
11	(a) $C=0.025w^2$ oe (b) 12	3 2 **[5]**	M2 for 1.6(0) = 64k or k = 0.025 or C ∝ 0.025w^2 **or** M1 for C = kw^2 or C ∝ w^2 M1 for w^2 = 3.60 ÷ their k or SC1 for 18 ans. to (a) written and used in (b) scores SC3 if not already awarded in (a).
12	(a) 65 to 65.4...or 65.5 (b) 10.9... or 10 × $\sqrt[3]{1.3}$ 11	3 M2 A1 **[6]**	M2 for $\pi\times2.5^2\times10\times\frac{1}{3}$ **or** M1 for $\pi\times2.5^2\times10$ SC2 $\pi\times5^2\times10\times\frac{1}{3}$ (261.7.... M1 $\sqrt[3]{1.3}$ seen **or** SC1 for 85.0.... or 1.3 × their (a) soi. **or** SC1 their ans to nearest cm but not 13 or their volume
13	(a) 80, 40, 10, 5 (b) 6 points plotted √ 5 pts joined with a smooth curve. (c) 1.3 to 1.5	2 1 1 1 **[5]**	1 for 2 correct condone support from calculation
	Section B Total:25 **Total mark available: 50**		