

SECTION B

8	(a)(i) $2^2 \times 3 \times 7$ oe	2	1 for any 2 different prime factors seen (may be in a list of all factors of 84)
	(ii) 840	1	allow as $2^3 \times 3 \times 5 \times 7$ oe
	(b) 126	3	M1 for $56 \div 4$ and M1 for 'their 14' $\times (5(+4))$ or 14 seen and used [6] or SC2 for 70.
9	4.47	3	M1 for $6-4=2$ and $10-6=4$ seen or (2,4) or M2 for $(6-4)^2 + (10-6)^2 (=20)$ [3] A1 for 4.5 or 4.4 0 for scale drawing.
10	(a) $(x=)63$	3	M1 for $((\frac{1}{3}x=)21$ or $x+9=3 \times 24$ and M1 for $x=21 \times 3$ or $21/\frac{1}{3}$ or $3 \times 24-9$ Accept embedded for 3 marks. SC2 for 70
	(b)(i) $x \leq -1$	2	M1 for $3x \leq 1-4$ or SC1 for $x < -1$ or $(x=) -1$ Do not accept embedded ans.in b(i)
	(ii) Marked correctly on line with closed circle at -1 .	1	or ft correctly from their inequality in (b)(i) [6]
11	Ruled parallel lines 2 cm from given line. 2 semi circles radius 2cm drawn with a compass .	1	Allow ± 1 mm tolerance.
		2	M1 for clear attempt at freehand semi circles or 1 correct drawn with a compass. [3] SC2 for correct shape and wrong scale. SC1 for correct shape all freehand.
12	12.5	3	W2 for figs 125 or M1 for $75 \times 50 \times 20$ and M1 for 'their volume' $\div 6$ [3]
13	79.5	4	M1 for at least 3 midpts 40,60 etc seen M1 for at least 3 of fx seen [allow from other 'midpts' in the range or endpts] or M2 for 6360 seen. M1 for sum of fx $\div 80$ (or their total frequency) dep on prev M1 SC2 for 69.5 or 89.5 [4]
Section B Total:25			
Total mark available: 50			