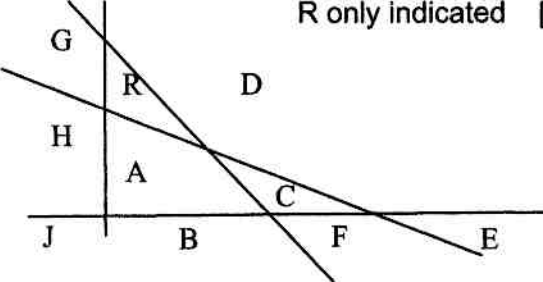


Section B

8	$15x + 10y = 20$ $4x - 10y = -58$ Add to get $19x = -38$ $x = -2, y = 5$	Condone 1 error at each stage	M1 M1 M1	$6x + 4y = 8$ $6x - 15y = -87$ Subtract to get $19y = 95$	Condone 1 error at each stage
				allow M2 for correct mult of 1st eqn. by 2.5, or 2nd equation by 0.4 and M1 for add or sub as reqd.	
				[1]	
				[4]	
9	The boys scored better on average. The boys' scores were more consistent.		[1] [1]	1 mark for each true statement that interprets the results.	
				[2]	
10		R only indicated	[3]	2 for A and B, or D and E, or G only or 1 for H and J, or C and F, or A only, or B only, or D only. 0 for anything else. If R and any other region give the lower mark. Otherwise allow 1 for each clear complete correct shading of any line.	
				[3]	
11	(a) 26.5%		[2]	M1 for 1.1×1.15 soi or 1.265 or £15180 seen.	
	(b) 6 weeks		[2]	M1 for trials of 0.88^n ($n > 2$) soi. (e.g. 88, 77.44, 68.14)	
				[4]	
12	(a) 1.495×10^{11}		[1]		
	(b) 498.6 to 499		[2]	M1 for figs 1495 + figs 2998 or figs 498(6..... (allow A1 for 498 or 500 after M1)	
				[3]	
13	(a) identification of angle 60 or 30 or $AG = 40$ $80 \times \sin 60$ oe or $\sqrt{80^2 - 40^2}$ 69.2(8...)		1 M1 A1	Use of 69 with 40 or 80 to get 30.4° or 59.6° SC2	
	(b) 114 or 115 (litres).		[6]	W5 for 114200 to 114585 or W3 for 82800 to 83160 seen. or M2 $69(.2...) \times (160 + 80) \times 5$ or M1 $\frac{69(.2.....) \times (160 + 80)}{2} (\times 2)$ and W2 for 31400 to 31425 seen or M1 for $\pi \times 25 \times 20^2$ or 40^2 and SC1 for 'their vol' to nearest litre.	
				[9]	

Section B Total:25

Total mark available: 50