Section A

1		$\dfrac{\pi a^2}{4} + \dfrac{\pi ac}{2}$	1	
		Total power is 2	1	Dep
			2	
2	(a)	10	2	**W1:** $10^3 = 1000$ **or** $4 \times 15^2 = 900$
	(b) (i)	$3\sqrt{2}$	1	
	(ii)	6	1	Accept $\sqrt{36}$
			4	
3	(a)	Reflection & no other transformation	1	Accept mirror image or mirrored
		in $y = x$	1	
	(b)	Correct final image	3	**W2:** correct C **W1:** rotation anticlockwise After **W0:** **W2:** correct translation of their C **W1** for each direction
			5	
4	(a) (i)	24	1	
	(ii)	19	1	
	(b)	(Section)B - higher median	1	Ignore other reasons
			3	
5	(a) (i)	$(x+5)(x+4)$	2	**M1:** $(x \pm 5)(x \pm 4)$
	(ii)	-5, -4 seen	1	f.t. dep on **M1** in (a)(i) accept in part (a)(i)
	(b)	Multiplication of equation {2} by 3 **or** Multiplication of equation {1} by 2 and multiplication of equation {2} by 7	M1	Accept 2 terms correct
		Addition or subtraction of equations	M1	Dep. on first **M1** Accept 2 terms correct
		$x = \dfrac{1}{2}$, $y = -2$	A1	Answer only: **W1**
			6	
6		Final answer $\dfrac{1}{12}$	2	**M1:** $\dfrac{5k}{60k}$ seen
			2	
7		-1, 0, 1, 2, 3, 4 and no others	3	**W2:** four of -2, -1, 0, 1, 2, 3, 4 and no others or **W1:** any two of -2, -1, 0, 1, 2, 3, 4 and no others or **M1:** $\dfrac{-5}{3} \le n \le 4$
			3	
			25	