Question Number	Marking Guidelines	Mark	Additional Information
1.(a)	44.3	A1	Or greater accuracy (44.319).
			Rounding must be correct for mark.
1.(b)	178000;	A1	
	OR		
	1.78×10 ⁵ ;		
2.(a)	Any two from:	C1+1	
	Categories overlap;		
	No option for more than 4 hours;		
	No time period given (in question);		
2.(b)	Non-bias question stating time period;	B1	Must be at least 3 answer boxes. If not then max mark 1.
	Non-overlapping options and inclusive of all	B1	
	hours;		
3.	Obtain 66π ; oe	A1	
	Multiply any value by 2611;	M1	
	Obtain 541378(.0956)(cm);	A1	
	State 5.41;	A1	Or greater accuracy (5.413780956)
4.	$\frac{1.1}{35}$ OR $\frac{1.7}{72}$ OR $\frac{4}{200}$;	M1	May be \times 100.
	Obtain 0.0314(2857143) OR 0.0236(1111111) OR		Could be %.
	0.02;	A1	
		C1	
	State C ;		
5.(a)	1200 × 0.85;	M1	Seen or implied. OR 1200 – (1200 × 0.15).
	K÷12;	M1	Where k is any positive integer less than 1200.
	255(g);	A1	
5.(b)	11 × 4 × 3 (=132);	M1	Seen or implied.
	(£)283.80;	A1	

5.(c)	Their 5.(b) × 1.65;	M1	Or equivalent (eg. 5.(b) × 165 ÷ 100).
	Correct evaluation;		If 5.(b) correct answer should be (£)468.27.
6.(a)	Fig. 3;	C1	
6.(b)	Fig. 1;	C1	
6.(c)(i)	2/twice;	C1	
6.(c)(ii)	(0, 0) / Origin;	C1	
6.(d)	Gradient of 3;	B1	
	y-intercept at -3;	B1	
7.	$\frac{6 \times 10}{3}$;	M1	No marks for 20.5(0864921).
	5		
	20;	A1	
8.	$9t^2 + 3 = 39;$	M1	M1 for obtaining $t^2 = 12$;
	$t^2 = 4;$	M1	
	t = -2;	A1	SC: B2 if $t = -\sqrt{12}$ obtained;
9.	State $51 = 3(15 + b)$; oe	M1	Set up any equation, even if incorrect, linking 51 and 15, with
			15 being added to <i>b</i> and multiplied by 3 in any order.
	Obtain $b = 2;$	A1	
			Set up any equation linking 15 with an unknown being added
	15 = 3(k + 2);	M1	to their <i>b</i> and multiplied by 3. Brackets must be correct for this
			mark.
	(First term =) 3;	A1	Correct answer with no or irrelevant working scores 1 mark
			out of 4.
10.(a)	Shows correct method of expansion to obtain	B1	AG so inspect working carefully.
	answer.		
10.(b)	$(2x+4)^2 = 4x^2 + 12x;$	M1	Substitute $2x + 4$ into second equation.
	$4x^2 + 16x + 16 = 4x^2 + 12x;$	M1	Expansion.
	x = -4;	A1	Obtain correct x.
	y = -4;	A1	Substitute <i>x</i> into either equation and obtain <i>y</i> = -4 only.
			If multiple x and y answers given A0A0.