	SECTION	Α	
1	Correct reason using estimation	M1	$20 \div 1 (= 20) \ 200 \times 1 \ (= 200)$ $18 \div 1 \ (= 18)$
	wrong (stated or implied)	A1	(Assume correct ans to calc involving 1 unless wrong ans shown.)
		[2]	$200 \times 0.9 = 180$ ans needed
2	(a) 5 litres/hour	1	accept ±5 accept l/h or lph oe. SC1 15 litres in 3 hours oe
	(b) between 13:00 and 15:00	1 [3]	condone limits within correct range.
3	(a) $(y = )3x + 2$	1	8
	(b)(i) $(y = )3x - 2$	1	
	(ii) $(y =) \frac{1}{3}x + 2$	1	
	3	[3]	
4	(a) 1.25 or $1\frac{1}{4}$ or $\frac{10}{8}$ or $\frac{5}{4}$ oe	2	M1 for $\frac{1}{0.8}$ seen
	(b) $4\frac{5}{12}$	3	M2 for $3 + \frac{17}{12}$ or $3\frac{17}{12}$ or $4 + \frac{5}{12}$ or $\frac{53}{12}$
			or M1 for 3 + fractions or $\frac{11}{4} + \frac{5}{3}$ or for clear attempt to use 12 or multiple as common denom. after 0 give SC1 for 4 + fraction
		[5]	
5	(a) BCF = $72^{\circ}$ and BCD = $2 \times 72$ and correct calculation(s) shown.	1	Look at diagram for clarification.
	All reasons <b>clearly</b> stated eg BCF and ABC allied angles, and symmetry.	1	
	(b) 9	2 [4]	M1 for 360 ÷ 40
6	(a) $7x-16=2(3x+1)$	M1	Condone missing brackets. M1 for $7x - 16 = 6x + 2$
	(x =) 18	W3	or ft correct expansion of their brackets.(M0 if no expansion needed)
			M1 correct ft of their equation t collect terms, either 'x's' or
	(b) $ACB = 55$ and $AOB = 110$ (cao)	1 [5]	numbers (must start from $x$ on both sides of eqn.)
7	(a) $\frac{150}{250}$ oe	1	isw after $\frac{150}{250}$ seen
	(b) 1200	2	M1 for their(a)×2000 or 150×8
		[3]	
Section	on A Total: 25		