1)	(a)	0.8	1		
	(b)	1850	4	M1 for	area = distance travelled two correct area statements complete correct area statement
2)	(a)	50	1		
	<b>(b)</b>	15	2	M1 fin	nding area under graph SC1 15000
3)	6(.00		M1 co units	omplete,	a = distance correct set of area statements, ignoring min to hours or km/h to km/min
4)	(a) (i)	[0]5 38 oe	1	Allow 5	h 38 but not 5h 38mins
	(ii)	92.7 [92.72 to 92.73] oe	2		$02\frac{8}{11}$ or $\frac{1020}{11}$ 850 ÷ their 9 h 10 min in hours oe
				Allow 8	50 ÷ 9.1 for <b>M1</b>
5)	(i) $9\frac{5}{12}$ or $\frac{108+5}{12}$ or $\frac{9 \times 12+5}{12}$ or $\frac{565}{60}$ or $\frac{9 \times 60+25}{60}$ seen			E1	Must be fractional form Condone $113/12 \times 60 = 565$ ; $9 \times 60 + 25 = 565$ Not for decimals
		$\frac{3y+2}{3} \text{ or } \frac{y+4}{2} \qquad \text{o.e.}$		<b>B</b> 1	
		$\frac{2(3y+2)}{6} + \frac{3(y+4)}{6}$ o.e.		<b>B</b> 1	or $\frac{6y+4}{6} + \frac{3y+12}{6}$ o.e.
		12 12 0.0.		M1 A1	o.e. means with common denominator or better
		y = 4.5  c.a.o.  www2 (Total dist =) (3 × their y) + 2 + (their y) + 4 o.e.			(Trial and error scores 2 or 0.) (= 24)
		(Average speed = ) $\frac{\text{their } 24}{9\frac{5}{2}}$ o.e.		M1	(dependent) Must be km divided by hours o.e. for full method
		<b>2.55</b> (km/h) $(2.548 - 2.549)$ c.a.o. ww	ww 3	A1	Accept fractions in range

6)	(a) (i) Tangent	1	Correct tangent drawn
	<b>(ii)</b> 4.4 to 6	2	dep M1 attempting to find gradient of their tangent
	<b>(b)</b> 780	2	<b>M1</b> evidence of finding the area under the graph ONLY from $t = 12$ to $t = 25$
7)	(a) 2	1	
	<b>(b)</b> 6.7 to 7.3	1	
	(c) 203	3	M1 intention to find area under the graph
			<b>M1</b> $\frac{1}{2} \times 7 \times 14 + 9 \times 14 + \frac{1}{2} \times 4 \times 14$ oe
8)	( <b>b</b> ) 22 35 or 10 35 pm	2	Accept 22 35 pm B1 for 15 35 or 3 35 pm seen or answers 22h 35 mins or (0)8 35(am) or 10 35(am)
	(c) 8710 ÷ 800 10.88 to 10.9 with no conversion to h/min or 10 (hrs) 52 (mins) to 10 (hrs) 54 (mins) oe	M1 A1	Implied by correct final ans 2hrs 52 mins if not shown
	13 hrs 45 mins – their time in hrs and mins oe or 13.75 – their decimal time <b>and</b> a correct conversion to hrs and mins or minutes	M1	Dep on first <b>M1</b> e.g. 13 hrs 45mins – 11 hrs 29 mins or 13.75 – 10.9 then 2hrs 51 mins
	2 hr 52 mins cao	A1	www4 (2 hrs 51.75 mins)