## Dist Speed Time 2 Answers

1) 

| (a) | 0.8 |
| :--- | :--- |
| (b) | 1850 |

1

4
M1 for area = distance travelled
M1 for two correct area statements
M1 for complete correct area statement
2)

| (a) | 50 |
| :--- | :--- |
| (b) |  |

1
2
M1 finding area under graph SC1 15000
3)
6(.00) www

4
M1 use of area $=$ distance
M1 complete, correct set of area statements, ignoring units
M1 changing min to hours or $\mathrm{km} / \mathrm{h}$ to $\mathrm{km} /$ min
4)

| (a) (i) | $[0] 538$ oe |
| ---: | :--- |
| (ii) | $92.7[92.72$ to 92.73$]$ oe |

1 Allow 5h 38 but not 5h 38 mins
2 Allow $92 \frac{8}{11}$ or $\frac{1020}{11}$
M1 for $850 \div$ their 9 h 10 min in hours oe Allow $850 \div 9.1$ for M1
5)

| (i) | $\begin{array}{l}9 \frac{5}{12} \text { or } \frac{108+5}{12} \text { or } \frac{9 \times 12+5}{12} \text { or } \frac{565}{60} \\ \text { or } \frac{9 \times 60+25}{60} \text { seen }\end{array}$ | $\begin{array}{l}\text { Must be fractional form } \\ \text { Condone } 113 / 12 \times 60=565 ; \\ 9 \times 60+25=565\end{array}$ |
| :--- | :--- | :---: | :--- |
| Not for decimals |  |  |$]$

## Dist Speed Time 2 Answers

6) 

(a) (i) Tangent
(ii) 4.4 to 6
(b) 780
$1 \mid$ Correct tangent drawn
2 dep M1 attempting to find gradient of their tangent
2 M1 evidence of finding the area under the graph ONLY from $t=12$ to $t=25$
7) (a) 2
(b) 6.7 to 7.3
(c) 203
8) (b) 2235 or 1035 pm
(c) $8710 \div 800$
10.88 to 10.9 with no conversion to $\mathrm{h} / \mathrm{min}$ or 10 (hrs) 52 (mins) to 10 (hrs) 54 (mins) oe 13 hrs 45 mins - their time in hrs and mins oe
or 13.75 - their decimal time and a correct conversion to hrs and mins or minutes
2 hr 52 mins cao

M1 intention to find area under the graph
M1 $\frac{1}{2} \times 7 \times 14+9 \times 14+\frac{1}{2} \times 4 \times 14$ oe

2

M1

A1

Accept 2235 pm
B1 for 1535 or 335 pm seen or answers 22 h 35 mins or (0)8 35(am) or $1035(\mathrm{am})$

Implied by correct final ans 2 hrs 52 mins if not shown

Dep on first M1
e.g. 13 hrs $45 \mathrm{mins}-11 \mathrm{hrs} 29 \mathrm{mins}$
or $13.75-10.9$ then 2 hrs 51 mins
www4 (2 hrs 51.75 mins$)$

