| Speed Distance Time Mark Scheme |  |
| :--- | :---: | :--- |
| 1(a) | Time $=3 \div 6=0.5$ hours |
| 30 minutes |  |$\quad$| [1] Time $=$ Distance $\div$ Speed |
| :--- |
| 1(b) |


| 7(a) | Distance from A to $B=825 \times 7.4=6105$ | [1] Distance=Speed $\times$ Time |
| :--- | :---: | :--- |
|  | Distance from B to $\mathrm{C}=722 \times 4.8=3465.6$ | [1] Distance=Speed $\times$ Time |
|  | Distance from A to B to $\mathrm{C}=6105+3465.6=9570.6 \mathrm{~km}$ | [1] Correct total difference |
| $\mathbf{7 ( b )}$ | $\mathrm{AC}=\sqrt{6105^{2}+3465.6^{2}}=7020.07$ | [1] By use of Pythagoras or otherwise |
|  | Time $=7020.07 \div 795=8.83 \mathrm{~h} \approx 8 \mathrm{~h} 50 \mathrm{~m}$ | [1] Time=Distance $\div$ Speed |
|  | Arrival Time $=11: 53 \mathrm{~h}+8 \mathrm{~h} 50 \mathrm{~m}=20: 43 \mathrm{~h}$ | [1] Correct time of arrival |

