

$$\begin{aligned}
 \textcircled{1} \text{ (a) (i) } \text{Time} &= \frac{\text{Distance}}{\text{Speed}} \\
 &= \frac{850 \text{ km}}{80 \text{ km/h}} \\
 &= 10.625 \text{ hours}
 \end{aligned}$$

$$\begin{aligned}
 \text{(ii) } 10.625 \text{ h} &= 10 \text{ h} + 0.625 \text{ h} \\
 &= 10 \text{ h} + 0.625 \times 60 \text{ min} \\
 &= 10 \text{ h} + 37.5 \text{ min} \\
 &= 10 \text{ h} + 37 \text{ min} + 0.5 \text{ min} \\
 &= 10 \text{ h} + 37 \text{ min} + 0.5 \times 60 \text{ sec} \\
 &= 10 \text{ h} + 37 \text{ min} + 30 \text{ sec} \\
 &= 10 \text{ hours } 37 \text{ minutes } 30 \text{ seconds}
 \end{aligned}$$

$$\begin{array}{r}
 \text{(b) (i) } \begin{array}{r} 19.20 \\ 10.48 + \\ \hline 29.68 \\ = 30.08 \end{array} \qquad \begin{array}{r} 30.08 \\ 24.00 - \\ \hline 06.08 \end{array}
 \end{array}$$

$$\begin{aligned}
 \text{(ii) } 10 \text{ h } 48 \text{ min} &= 10 \text{ h} + \frac{48}{60} \text{ h} \\
 &= 10 \text{ h} + 0.8 \text{ h} \\
 &= 10.8 \text{ h}
 \end{aligned}$$

$$\begin{aligned}
 \text{Average speed} &= \frac{\text{Distance}}{\text{Time}} \\
 &= \frac{850 \text{ km}}{10.8 \text{ h}} \\
 &= 78.703703703... \\
 &\approx 78.7 \text{ km/h}
 \end{aligned}$$

(c) (i) Increasing more slowly

(ii) Decreasing