

2. Converting to SI units, we use Eq. 2-3 with  $d$  for distance.

$$\begin{aligned} s_{\text{avg}} &= \frac{d}{t} \\ (110.6 \text{ km/h}) \left( \frac{1000 \text{ m/km}}{3600 \text{ s/h}} \right) &= \frac{200.0 \text{ m}}{t} \end{aligned}$$

which yields  $t = 6.510 \text{ s}$ . We converted the speed  $\text{km/h} \rightarrow \text{m/s}$  by converting each unit ( $\text{km} \rightarrow \text{m}$ ,  $\text{h} \rightarrow \text{s}$ ) individually. But we mention that the “one-step” conversion can be found in Appendix D ( $1 \text{ km/h} = 0.2778 \text{ m/s}$ ).