

Answers to Practice Problems:

$$\textcircled{1} \frac{50 \text{ mi}}{1 \text{ hr}} \cdot \frac{1 \text{ hr}}{60 \text{ sec}} \cdot \frac{5280 \text{ FT}}{1 \text{ mi}} = \frac{264000}{60} = \boxed{4400} \frac{\text{FT}}{\text{sec}}$$

$$\textcircled{2} \frac{5 \text{ Km}}{1 \text{ min}} \cdot \frac{1 \text{ min}}{60 \text{ sec}} \cdot \frac{1000 \text{ m}}{1 \text{ Km}} = \frac{5000}{60} = \boxed{83.\bar{3}} \frac{\text{m}}{\text{sec}}$$

$$\textcircled{3} \frac{24 \text{ in}}{1 \text{ sec}} \cdot \frac{60 \text{ sec}}{1 \text{ min}} \cdot \frac{60 \text{ min}}{1 \text{ hr}} \cdot \frac{1 \text{ FT}}{12 \text{ in}} \cdot \frac{1 \text{ mi}}{5280 \text{ FT}} = \frac{864000}{63360} = \boxed{13.\bar{6}} \frac{\text{mi}}{\text{hr}}$$

$$\textcircled{4} \frac{15 \text{ FT}}{1 \text{ min}} \cdot \frac{1 \text{ mi}}{5280 \text{ FT}} \cdot \frac{60 \text{ min}}{1 \text{ hr}} \cdot \frac{24 \text{ hr}}{1 \text{ day}} = \frac{21600}{5280} = \boxed{4.09} \frac{\text{mi}}{\text{day}}$$

$$\textcircled{5} \frac{6 \text{ Km}}{1 \text{ day}} \cdot \frac{1000 \text{ m}}{1 \text{ Km}} \cdot \frac{1 \text{ day}}{24 \text{ hr}} = \frac{6000}{24} = \boxed{250} \frac{\text{m}}{\text{hr}}$$