WHICH IS FASTER – 60 MPH or 10 M/S ?

60 MILES $\longrightarrow$? METERS

$$[60\ \text{MILES}]\left[\frac{5280\ \text{FT}}{\text{MILE}}\right] = (316800\ \text{FT})\left[\frac{3.28\ \text{FT}}{\text{M}}\right]$$

$$\frac{3.28\ \text{FT}}{[\text{M}]}$$

$$[316800\ \text{FT}]\left[\frac{\text{M}}{3.28\ \text{FT}}\right]$$

$$\frac{[96{,}585.37\ \text{M}]}{(\text{HOUR})}\left[\frac{\text{HOUR}}{3600\ \text{S}}\right]$$

$$?\left[\frac{\text{SEC}}{\text{HR}}\right] = \left[\frac{\text{HR}}{60\ \text{MIN}}\right]\left[\frac{\text{MIN}}{60\ \text{S}}\right] = \left(\frac{\text{HR}}{3600\ \text{S}}\right)$$

$$26.83\ \text{M/S}$$

60 MPH vs 10 M/s

$$\left[\frac{60\ \text{Miles}}{\text{HOUR}}\right]\left[\frac{5280\ \text{FT}}{(\text{Mile})}\right] = \left[\frac{316{,}800\ \text{FT}}{\text{Hr}}\right]\left[\frac{\text{M}}{3.28\ \text{FT}}\right] = \frac{?\ \text{M/S}}{}$$

$$\left[96{,}585.36\ \text{M/Hr}\right]$$

$$\uparrow$$

$$3600\ \text{S/Hr}$$

$$\left[96{,}585.36\ \frac{\text{M}}{\text{Hr}}\right]\frac{\text{Hr}}{3600\text{S}} = 26.8\ \text{M/S}$$