Convert 30 mph to m/s.

$$\frac{30\text{mi}}{1\text{hr}}\left(\frac{5280\text{ft}}{1\text{mi}}\right)\left(\frac{1\text{m}}{3.3\text{ft}}\right)\left(\frac{1\text{hr}}{60\text{min}}\right)\left(\frac{1\text{min}}{60\text{sec}}\right)=$$

$$\frac{158400\text{m}}{11880\text{sec}}=13.33\text{m/s}$$

Convert 52 m/s to mph.

$$\frac{30\text{m}}{1\text{sec}}\left(\frac{3.3\text{ft}}{1\text{m}}\right)\left(\frac{1\text{mi}}{5280\text{ft}}\right)\left(\frac{60\text{sec}}{1\text{min}}\right)\left(\frac{60\text{min}}{1\text{hr}}\right)=$$

$$\frac{356400\text{mi}}{5280\text{hr}}=67.5\text{m/s}$$