## Quiz 2b

1) During a game a soccer player runs 24.0 m North and then 16.0 m South in 12 s . Find his:
a. Average speed.
b. Average velocity
2) You are traveling on a highway at $90.0 \mathrm{~km} / \mathrm{h}$ when you sneeze. During your sneeze your eyes are closed for 0.50 s. How far did you travel with your eyes closed?
1.) a. $V=\frac{d}{t}=\frac{(24+16)}{12 \mathrm{~s}}=3.3 \mathrm{~m} / \mathrm{s}$
b.

2.)

$$
\begin{array}{lrl}
v=90.0 \mathrm{~km} / \mathrm{h} \div 3.6=25.0 \mathrm{~m} / \mathrm{s} & V & =\frac{d}{t} \cdot t \\
d=? & & d \\
t=0.50 \mathrm{~s} & & \\
& & =(25.0 \mathrm{~m} / \mathrm{s})(0.50 \mathrm{~s}) \\
& & 13 \mathrm{~m}
\end{array}
$$

