Quiz Zb  Note Title 27/09/2012
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 km/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. 
$$V = d = (24 + 16)m = 3.3 m/s$$

b. 
$$\vec{V} = \frac{\vec{d}}{t} = \frac{8.0 \text{m}}{12 \text{ s}} = 0.75 \text{ m/s} (\text{North})$$

2.) 
$$V = 90.0 \text{ Km/h} \div 3.6 = 25.0 \text{ m/s}$$

$$d = ?$$

$$t = 0.50 \text{ s}$$

$$= (25.0 \text{ m/s})(0.50 \text{ s})$$