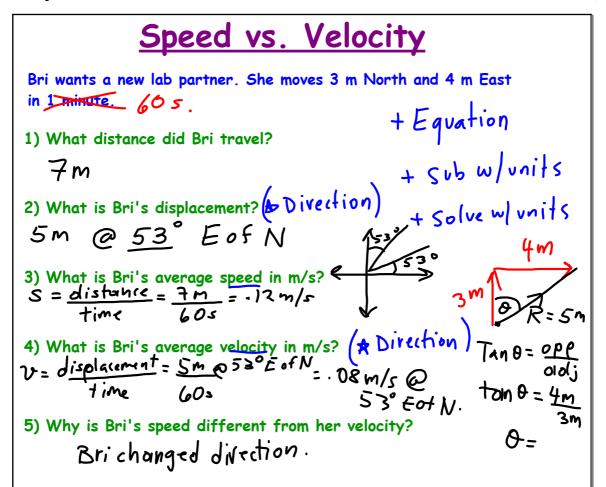


## Speed vs. Velocity

Nick forgot his pencil and this makes Ms. Nigro pace back and forth around the room. Ms. Nigro walks 10m to the right in 1s, then 8m to the left in 6s, then 3m to the right in 3s.

1) What is Ms. Nigro's constant average speed?  
Avg. 
$$Sp = \frac{\text{Distance}}{\text{Time}} = \frac{2 \text{Im}}{10 \text{ s}} = 2 \cdot \frac{1 \text{ m/s}}{8 \text{ m}} = \frac{6 \text{ s}}{3 \text{ s}}$$
  
2) What is Ms. Nigro's constant average velocity?  
Avg.  $Vel = \frac{\text{Displacement}}{1 \text{ ime}} = \frac{\frac{5 \text{ m right}}{10 \text{ s}} = \frac{.5 \text{ m/s}}{10 \text{$ 



Constant Speed and Constant Velocity	⊽ = <u>d</u> †	v = average velocity or average speed (m/s d = displacement or distance (m) t = time (s)
l) Taylor is driving her co seconds?	ır at 25 m/s Ea:	st. What is her displacement after 40
2) Joey's balloon drifts I	North at 1.6 m/	/s. How long will it take to travel 80 meters?
3) A sled travels 52 met	ers downhill in 4	seconds. Find the average speed.