

## Science 1206 - Worksheet 7: Velocity

1. Mary runs at a speed of  $3.0\text{m/s}$  [N] for 2.0 minutes. What is her displacement for the trip?
2. A car travelling at an average speed of  $57\text{km/h}$  [E] makes a  $300\text{km}$  [E] trip. How long did the trip take?
3. If Tom's velocity is  $17\text{ km/h}$  east, how long will it take for him to travel  $50\text{ km}$  east?
4. A car travels from St. John's to Clarendville in  $2.0\text{ hr}$ . The displacement traveled by the car is  $175\text{ km}$ [W]. What is the average velocity of the car for the trip?
5. A person walks at a velocity  $6.0\text{ km/h}$  [E]. How much time is required for a person to walk  $30\text{ m}$ [E]?

6. A car drives 90.0m [N] in 20.0 s, then turns and drives 225. m [S] in 25.0 s. What is the car's speed and velocity?
  
  
  
  
  
  
  
  
  
  
7. A walker goes 40.0 m [W] in 15.0 s, then turns and walks 40.0 m [E] in 15.0 s, then turns and walks 30.0 m [W] in 10.0 s. What is the person's speed and velocity?
  
  
  
  
  
  
  
  
  
  
8. A car drives 70.0m [W] in 20.0 s, then turns and drives 150. m [E] in 45.0 s. What is the car's Velocity?
  
  
  
  
  
  
  
  
  
  
9. A crow flies 125m [S], 220m [N] and finally 360m [S]. If this takes the crow 15 minutes, calculate the crow's average speed and average velocity.
  
  
  
  
  
  
  
  
  
  
10. The world record for the 400.0m (1 lap around the track) race is 43.18s. Calculate the average speed and average velocity for the race.