Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Page 44 - Practice Problems A – Average Velocity & Displacement Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Heather and Matthew walk with an average velocity of 0.98 m/s eastward. If it takes them 34 min to walk to the store, what is their displacement?
2. If Joe rides his bicycle in a straight line for 15 min with an average velocity of 12.5 km/h south, how far has he ridden?
3. If you take 9.5 min walk with an average velocity of 1.2 m/s to the north from the bus stop to the museum entrance. What is your displacement?

1. Simpson drives his car with an average velocity of 48 km/h to the east. How long will it take to drive 144 km on a straight highway?

1. Lock back at item 4. How much time would Simpson save by increasing his average velocity to 56.0 km/h to the east?
2. A bus travels 280 km south along a straight path with an average velocity of 88 km/h to the south. The bus stops for 24 min. Then travels 210 km south with an average velocity of 75 km/h to the south.
3. How long does the total time trip last?
4. What is the average velocity for the total trip?