Speed and Velocity Worksheet.

Makesure all of your answers have correct units.

1. How is velocity different from speed?

2. (a) A bicyclist travels due east 60.0 km in 3.5 hours. What is the cyclist’s average speed?

(b) If the bicyclist then travels 30.0 km west in 1.0 additional hours, what is his displacement for the entire trip?

(c) What is his velocity for the entire trip? (Assume east is positive)

3. What is the average speed of a car that traveled 300.0 miles in 5.5 hours? Write your answer in km/min.

4. How much time would it take for the sound of thunder to travel 1,500 meters if sound travels at a speed of 330m/s?

5. (a) How much time would it take for an airplane to reach its destination if it traveled at an average speed of 790 km/hr for a distance of 4,700 mi? (Answer in seconds and in scientific notation)

(b)If the airplane then turns around and returns to its original gate, what is its velocity?