

Goal • Check your understanding of velocity and the velocity formula. Be sure to show all your work.

1. A single-engine airplane leaves an airport and flies to another airport 850 km north. It takes 4.0 h to complete the flight. What is the velocity of the airplane?

2. A truck travels from City A due west to City B, a distance of 210 km. The total time for the trip is two hours and fifteen minutes. What is the average velocity of the truck?

3. A bus travels from City X due east toward City Y. If the bus travels at an average velocity of 90 km/h[E], what will be the displacement of the bus 4.5 h later?

4. How many seconds will it take a speedboat travelling at 70.0 km/h[S] to cover a distance of 5.0 km?