1. What is the average velocity (in km/h) of a car that traveled a total of 75 km in 1.4
   hours? 54 km/h

2. Catherine took 45 minutes to bicycle to her grandmother’s house, a total of 4.0 km.
   What was her average velocity in km/h? 5.3 km/h

3. It took 3.5 hours for a train to travel the distance between two cities at a constant
   velocity of 120.0 km/h. How far apart (in km) are the two cities? 420 km

4. How long would it take for a truck to travel a distance of 200.0 km if it is traveling
   at a constant velocity of 55.0 km/h? 3.64 hr

5. A plane traveled for about 2.5 hours at a constant velocity of 1200.0 km/h. How
   far did it travel? 3.0 x 10³ km

6. Laci is pedaling her bicycle at a constant velocity of 0.10 km/min. How far will she
   travel in 2.0 hours? 12 km

7. A Bob runs 100.0 m in 12.20 s. What is the Bob’s average velocity in m/s? 8.197 m/s

8. Suppose Holly drives her car at a constant velocity of 10.0 m/s. How far would
   she travel in 1.00 h? 36.0 km in 1 hr
   in 1.00 min? 0.600 km in 1 min
9. A bus leaves the station at the 0.0 m marker traveling with a constant velocity of 36.0 m/s. How many seconds later will the train pass the 1620.0 m marker? 45.0 s

10. In the 2012 Summer Olympics, Shelly-Ann Fraser-Pryce won the 100.0 m race in 10.75 s. What was her average velocity in m/s? 9.302 m/s

11. A high-velocity train travels from Paris to Lyons at an average velocity of 227 km/h. The trip takes 2.05 h. How far is Lyons from Paris? 465 km

12. You and a friend each drive to Halifax, a distance of 300.0 km. You travel at the speed limit of 100.0 km/h, your friend speeds at 110.0 km/h. How long will your friend wait for you at the end of the trip? 16.4 min

13. Ann is driving down a street at a constant velocity of 55 km/h. Suddenly a child runs into the street. If it takes Ann 0.75 s to react and apply the brakes, how many meters will she have moved before she begins to slow down? 11 m

14. 0.30 s after seeing a puff of smoke rise from the starter’s pistol, the sound of the firing of the pistol is heard by the track timer 100.0 m away. What is the speed of sound? 330 m/s

15. Light from the Sun reaches the Earth in 8.30 min. The velocity of light is $3.00 \times 10^8$ m/s. How far is the Earth from the Sun? $1.49 \times 10^{11}$ m

16. Light travels at $3.00 \times 10^8$ m/s. How many seconds go by from the moment the starter’s pistol is shot until the smoke is seen by the track timer 100.0 m away? $3.33 \times 10^{-7}$ s