

Science 10  
Velocity Word Problems Assignment  
Total : /35

Recall:  $v = \frac{d}{t}$      $d = vt$      $t = \frac{d}{v}$

**Remember to check if your units match.** If they do not you need to convert.

Put all your answers on a separate sheet of paper. Show all your work!!! Don't forget to use the correct formula and convert if needed.

1. Jose wandered 4 kilometers at 2 kilometers per hour. How long did Jose wander? (2)
2. A vehicle travels 2345 m in 315 s toward the evening sun. What is its speed? (1)
3. What distance will a car traveling 65 km/hr travel in 180 min? (3)
4. How long will it take to go 150,000 m traveling at 50 km/hr? (3)
5. The world speed record on water was set on October 8, 1978 by Ken Warby. If Ken drove his motorboat a distance of 1500 m in 8.102s, how fast was his boat moving in meters per second and kilometers per hour? (2)
6. What distance will be traveled if you are going 120km/hr for 30 min? (3)
7. How long will it take to travel 200 km traveling 10 m/s? (3)
8. A car travels 240 km in 2.0 hrs and a sprinter travels a 100 m in 9.5 s. Which is traveling faster the car or the sprinter and by how much? (4)
9. You drive a car from Milwaukee to Chicago, which is a distance of 150km and it takes you 95 min. What is its velocity in km/hr and m/s? (3)
10. A baseball is thrown a distance of 18m. What is its speed if it takes 0.5 seconds to cover the distance? (1)
11. It took Shawn 6 hours to walk to Susan's house at 2 kilometers per hour. How far is it between Shawn's house and Susan's house? (2)
12. If Benjamin skated 80 kilometers at 10 kilometers per hour, how long was Benjamin skating? (2)
13. Evelyn rode her bicycle to Kathleen's house. It is 36 kilometers from Evelyn's house to Kathleen's house. It took Evelyn 6 hours to get there. How fast did Evelyn ride? (1)
14. After an impact involving a non-functioning satellite, a paint chip leaves the surface of the satellite at a speed of 96 m/s. After 17 seconds, how far has the chip landed? (2)
15. The space shuttle Endeavor is launched to altitude of 500 km above the surface of the earth. The shuttle travels at an average rate of 700 m/s. How long will it take for Endeavor to reach its orbit? (3)