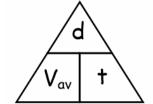
Average Speed Questions (Extra Practice)

- 1. d = 14 km t = 2.7 h v = ?
- 2. v = 14.9 meters/sec d = 30 meters t = ?
- 3. v = 8.2 m/s d = 6.0 km t = ? (answer in seconds)
- 4. t = 122 s v = 3.4 m/s d = ?



- 5. A high school athlete runs $1.00 \times 10^2 \text{ m}$ in 12.20 seconds. What is the speed in m/s and km/hr?
- 6. A person walks 13km in 2.0 h. What is the person's average speed in km/h and m/s?
- 7. Using the data from the table to the right, during what one-second time interval is the car moving slowest? Moving fastest?
- 8. Using the data in the table to the right, find the average speed of the car in the time interval between 0.0 and 2.0 seconds.
- 9. Suppose a car travels at a constant 1.0 x 10^1 m/s. How far would it move in 1 h? in 1 min? in 1 ms? In 1 μ s? in 1 ns?

Clock readings,	Position, d,
t, in seconds	in meters
0.0	30
1.0	30
2.0	35
3.0	45
4.0	60
5.0	70

- 10. A train leaves the station at the 0.0m marker traveling with a constant speed of 36.0 m/s.
 - a. How many seconds later will the train pass the 1620.0-m marker?
 - b. What is the speed of the train in km/h?
- 11. Which of the motions described below are nonuniform? Explain your choices.
 - a. A rubber stopper is dropped from your raised hand to the floor.
 - b. A car is travelling at a steady rate of 85 km/h due west.
 - c. A rocket begins rising from the launch pad.
 - d. A motorcycle rider applies the brakes to come to a stop.