

### 3.2 Review Questions

1. A fingernail can grow 3.0 cm in one year. How fast is that in m/s?
2. How fast is a car going (in m/s) if it travels 3000 m in three minutes?
3. How far can a plane traveling at 1000 Km/hr go in a time of 4 hours?
4. How long would it take a car traveling at 15 m/s to go a distance of 1.00 Km?
5. A car travels a total distance of 1000km. The entire trip took 10 hours.
  - a. What was the car's average speed ( $v_{ave}$ ) for the trip?
  - b. What was the car's  $v_{ave}$  in m/s?
6. Fill in the chart.

distance (m)	time (s)	speed (m/s)
30	2	
	0.1	20
150		10

7. A car is traveling 15m/s. It goes at this velocity for 9s. How far has the car gone?
8. A car is going 12m/s. It went 3600m. How long did the trip take?