## Velocity and Acceleration

1.	What is the speed of a car that travels 150 km in 3.00 hrs? Is the car speeding on $84^{th}$ st? (1.0 m/s = 2.23 mi/hr)
2.	A vehicle travels 2345 m in 315 s toward the evening sun. What is its velocity?
3.	What is the speed of a bus that travels 250.0 km in 2.00 hours?
4.	Convert your answer from 3 to meters per second.
5.	What distance will a car traveling 65 km/hr travel in 3.0 hrs?
6.	What distance will be traveled if you are going 120km/hr for 30. min?
7.	How long will it take to go150 km traveling at 50 km/hr?
8.	How long will it take to travel 200 km traveling 10 m/s?
9.	If a rocket travels 5600. km in 3.00 hours, what is its speed?
10.	Convert to m/s.
11.	A car travels 240 km in 2.0 hrs and a sprinter travels a 100. m in 9.5 s. Which is traveling faster and by how much?
12.	What is the acceleration of a car that goes from 40km/hr to 80 km/hr in 2 s?
13.	What is the acceleration of a sprinter who finishes the race traveling 24m/s? She ran for 12 s.
14.	A vehicle that goes from 5m/s to 45m/s in 8s. What is its acceleration?

15. What is the acceleration of a bike that goes from 38 km/hr to a stop in 4.5 s?	
16. You drive a car from Milwaukee to Chicago in 95 min. What is its velocity in km/hr and speed in m/s Were you speeding? Use 150km as your distance.	;?
17. How far will you go in 3.0 min traveling 60. km/hr?	
18. What is the acceleration of a car going from 3.0 x $10^1$ km/hr to 1.20 x $10^2$ km/hr in 3.0 x $10^1$ sec?	
19. What is the acceleration of a vehicle that goes from 35 m/s to a stop in 35 s?	
20. Convert 36 km / hr to m/s.	