Science 10
Chapter 9 Review

Complete the following questions from your textbook:

Pg 376-377 #1, 7, 8, 9, 10, 11

Complete the following questions in your notebook.

1. Significant figures adding and subtracting: complete each of the following and provide your answer in the correct number of significant digits.
   a. 4.60 + 3 =
   b. 0.008 + 0.05 =
   c. 22.4420 + 56.981 =
   d. 200 - 87.3 =
   e. 67.5 - 0.009 =
   f. 71.86 - 13.1 =
   g. 357.89 + 0.002 =
   h. 17.95 + 32.42 + 50 =
   i. 5.5 + 3.7 + 2.97 =
   j. 84.675 - 3 =
   k. 75 - 2.55 =
   l. 10 - 9.9 =

2. Significant Figures multiplying and dividing: complete each of the following and provide your answer in the correct number of significant digits.
   a. 13.7 x 2.5 =
   b. 200 x 3.58 =
   c. 0.00003 x 727 =
   d. 5003 / 3.781 =
   e. 89 / 9.0 =
   f. 5000 / 55 =
   g. 7.6 x 21.9 =
   h. 2.15 x 3.1 x 100 =
   i. 5.00009 x 0.06 =
   j. 38 / 7 =
   k. 500 009 / 17.000 =
   l. 500 000 / 5.002 =

3. Does the speedometer of a car read average speed or instantaneous speed? How do you know?

4. In a competition, an athlete threw a flying disk 139 meters through the air. While in flight, the disk traveled at an average speed of 13.0 m/s. How long did the disk remain in the air?

5. How much time does it take for a bird flying at a speed of 45 miles per hour to travel a distance of 1,800 miles?

6. A comet is cruising through the solar system at a speed of 50,000 kilometers per hour for 4 hours time. What is the total distance traveled by the comet during this time?

7. Given the following table:

t(s)	d(m)
0	0
1	5
2	10
3	15
4	20
5	25
6	30

   a. Sketch a distance-time graph
   b. Find the speed of the object

8. A car travels a constant speed of 100km/h for 3 hours and then stops for 2 hours. Sketch this on a distance-time graph and then answer the following questions:
   a. At 2 hours what was the cars distance?
   b. What was the total distance travelled by the car?