11.1 Worksheet

Name _____

1. A dog chases a mail truck traveling east for 550 meters and then runs 200 meters back west to a fire hydrant.

    a. What is the dogs displacement?

    b. What was the total distance traveled by the dog?

    c. The dog eventually walks home, what is the dogs total distance?

    d. The dog eventually walks home, what is the dogs total displacement?

2. Find the speed for the following;

a. A car driving 87 km in 2 hours

b. A person running 13.25 km in 2.5 hours

c. Convert your answers in "a" and "b" into meters per second

3. A person is running 5.6 m/s for 22 minutes. How far has this person ran?

4. A car drives 367 km at a speed of 98 km / hour. How long has the car been driving?

5. Create a graph of the following data on a separate sheet of paper (or graph paper)

Distance (m)	Time (s)
0	0
10	5
20	10
30	15
40	20
45	25
50	30
55	35
70	40
70	45
60	50
50	55
40	60
20	65
0	70

6. Using the graph…
   a. What is the average speed from 0-15 seconds?
   b. What is the average speed from 0-30 seconds?
   c. What is the average speed from 30-40seconds?
   d. What is the average speed from 40-45 seconds?
   e. What is the average speed from 50-60 seconds?
   f. What is the average speed from 60-70 seconds?