Name _____ Date _____ Period _____

Speed and Velocity

Follow the path of the car shown below.

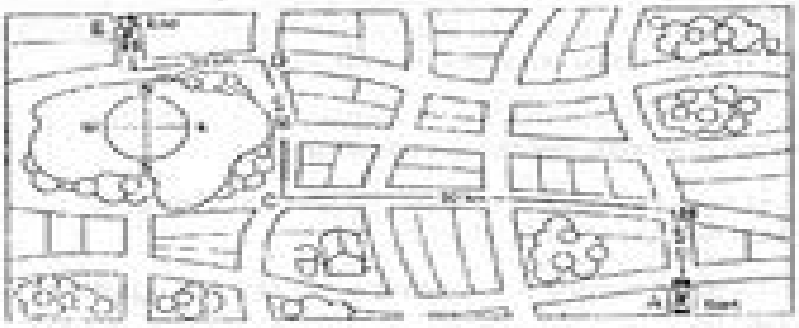

Figure 1

1. What is the difference between speed and velocity?

_____

_____

2. What is acceleration?

_____

3. The car travels from B to C in 2.5 hours. What is the average velocity of the car during that part of the trip? Show work.

_____

_____

4. The entire trip took 6 hours. What is the average velocity for the trip? Show work.

_____

_____

5. The car started from a standstill and reached a speed of 100 m/s during the first 20 seconds of the trip. What is the average acceleration of the car over those 20 seconds? Show work.

_____

_____

6. During the last 10 seconds of the trip, the car slows down from a speed of 150 m/s to a stop. What is the deceleration of the car for those 10 seconds? Show work.