

Name _____ Date _____ Period _____

Speed and Velocity

Follow the path of the car shown below.

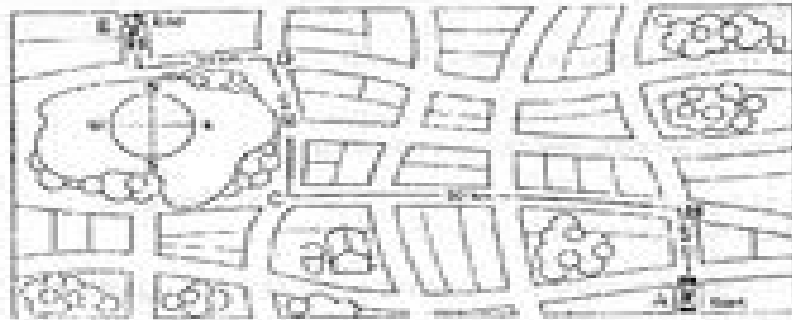


Figure 1

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.