Name: _____   Period: _____

Velocity and Acceleration Practice

1) A person drives two hundred miles in one and a half hours. What is their average speed? (4 pts)

2) It takes a ladybug 5 hours to walk 150 feet. What is the ladybugs average speed? (4 pts)

3) If an ant can travel 4.5 meters in 30 minutes, how fast can they go? Give your answer in m/s. (5 pts)

4) An airplane can fly 450 miles per hour. How far has the airplane gone if it flies for 3.25 hours? (4 pts)

5) A kid can ride a bike around the block (800ft) at a speed of 8 ft/s. How long does it take to ride around the block? (4 pts)

6) Assuming a bird can fly a constant 2.5m/s, how far can they fly in 10 minutes? (5 pts)

7) How many hours would it take to drive from New York City to Los Angles (2,763 miles) if you average 65mph? How many days is that? (6 pts)

8) A car accelerates from rest to 27m/s in 4.5s. What is the cars acceleration? (4 pts)

9) A motorcycle has an acceleration of 4ft/s^2. If it accelerates for 7s, what is its velocity? (4 pts)

10) A truck is traveling 20m/s towards a stop light when all of a sudden the light turns red. The truck has 4s to stop safely. If the truck can decelerate at 3.5m/s^2, will they be safe or will they crash? (5 pts)