

Name _____ Period _____ Date _____

Speed and Acceleration

PART 1: CONCEPTS

1. Does the speedometer of a car read average speed or instantaneous speed? _____
How do you know?
2. If the speedometer of your car reads a constant speed of 40km/hr, can you say the car has a constant velocity? _____ Explain your answer.
3. a) Which two controls on a car cause a change in speed? _____

b) Which additional control causes a change in velocity? _____
4. What is the acceleration of a car that travels in a straight line at a constant speed? _____
5. Describe a situation in which you can accelerate even though your speed doesn't change. Remember that the definition of acceleration is a change in an objects velocity.