

Name: _____

Date: _____

Speeds and Acceleration

1. What two controls on a car cause a change in speed? **Accelerator and brake**
What control causes a change in velocity? **Steering wheel, brake, accelerator**
2. What is the acceleration of a car that travels in a straight line at a constant speed?
0 (not changing speed or direction)
3. Describe a situation in which you can accelerate even though your speed doesn't change.
Changing your direction
4. Does the speedometer of a car read average speed or instantaneous speed?
instantaneous
How do you know? **b/c the speedometer moves back and forth. It does not show how far you've traveled, or how long it took you to travel that distance.**
5. If the speedometer in a car shows 40 km/hr for an hour, can you say the car has a constant velocity? **no**
Explain your answer. **It is not known if the direction of the vehicle changed during that hour.**