Due Mon., Sept 28 Due Tues., Sept 29

2009 Linear Motion 6

- A. If a car is moving 8 m/s and turns a corner without changing speed, is it accelerating?
 B. Why or why not?
- 2. A. If an object is moving to the right, is its velocity is + or -?
 - B. If it has a positive acceleration is it speeding up or slowing down?
 - C. If it has a negative acceleration (and still moving to the right) is it speeding up or slowing down?
- 3. The graphic shows an object moving to the right. A, B, and C show where it COULD be at 3 seconds.
 - i._____ Where will it be if it has a positive acceleration?
 - ii. _____ Where will it be if it has a negative acceleration?
 - iii. ____ Where will it be if it has no acceleration?
- 4. Write the following in scientific notation.A. 13,000,000 B. 0.0000034



- 5. Write out 8.5×10^5
- 6. A. The slope of a position vs. time graph tells you what about the object?
 - B. The y-intercept of a position vs. time graph tells you what about the object?
 - C. The slope of a velocity vs. time graph tells you what about the object?
 - D. The y-intercept of a velocity vs. time graph tells you what about the object?
- 7. Order the following metric units from largest to smallest: millimeters; micrometers; megameters; kilometers; meters; centimeters.
- 8. An object is dropped and falls for 1.5 seconds before it hits the ground. How high was the desk?
- 9. A car moving 25 m/s stops in 5 seconds. How far did it move before it stopped?
- 10. An airplane is flying 250 m/s. How long does it take the plane to go 23,000 meters?



11. Translate the position vs. time graph to the other two graphs. Use actual numbers.

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12. Use the linear equation to find how fast the object on the graph will be going 132 m/s.



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