Name: _____
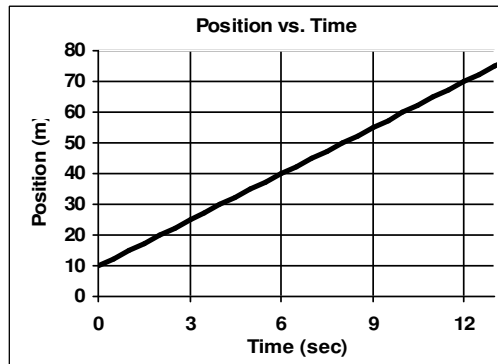
Period:_____

Assigned: Wed., 1/10 and Thurs., 1/11
Due: Fri., 1/12 and Tues., 1/16

1. Use "How to Solve Word Problems": *A 4 kg object has 12 kgm/s of momentum. How fast is it moving?*
   (Show all steps!)

2. If a person walks 20 m in 40 seconds, find speed.

3. If $v = \dfrac{d}{t}$ what does d = ?

4. If a person walks 1 m/s around a corner, did they accelerate?
5. Why or why not?

6. A car starts at rest. If 10 seconds later it is traveling 15 m/s, calculate the acceleration of the car. (Show steps)

7. Which segment
   A. ____Negative velocity?
   B. ____Moving forward?
   C. ____Not moving?
   D. ____Positive velocity?
   E. ____At rest?

Position vs. Time

HW Unit6:3
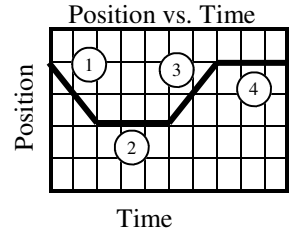
8. Where does the object start?

9. What does the slope mean?

10. Where is the object after 12 sec?

11. Find the slope of the line.

Position vs. Time

15. Which variable on the graph is independent?

16. Dependent or Independent?
    A. _____ Time? B. _____ Position?
    C. _____ Acceleration? D. _____ y-axis?

17. Manipulated or Responsive?
    A. _____ x-axis? B. _____ y-axis?

18. When is time a dependent variable?

12. Draw a line that shows an object at rest 20 m away (label it as "Line B").
13. Draw a line that shows a faster speed than the given line (label it "Line C").
14. And, yes, draw "Line D" as negative speed.

19. Draw dots to show constant speed.

20. Draw dots to show an object slowing down (neg. acceleration).