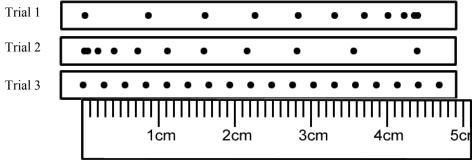
A-Day: due Thurs., 9/7 (Assigned 9/5) B-Day: due Wed., Sept.6 (Assigned 9/1)

Use the three tape timers at the right to answer the following questions.

- 1) Which one shows constant velocity?
- 2) Which one shows positive acceleration?
- 3) Which one shows no acceleration?
- 4) Which one shows negative acceleration?
- 5) Which one shows an object speeding up?
- 6) Which one shows an object slowing down?

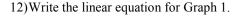


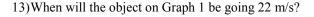
7) Using Trial 1 only. If each of the dots is 0.2 seconds.

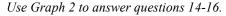
- A. How much time is there between the first and last dot?
- B. What is its displacement during that time?
- C. Calculate the velocity of the object in Trial 1.

Use Graph 1 to answer questions 8-13.

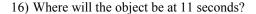
- 8) What does the slope of the line mean?
- 9) What does the y-intercept mean?
- 10) What would the area of the graph mean? (remember that area = LxW)
- 11) Find the slope.

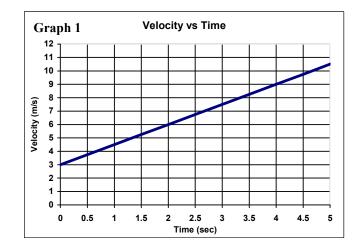


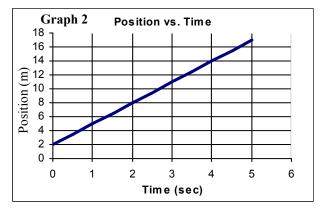




- 14) What does the slope mean?
- 15) Find the linear equation for Graph 2.







Hint: use your kinematic equations!

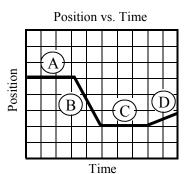
17) An object at rest feels a force that gives it an acceleration of -5 m/s². How far does it travel in 6 seconds?

18) An object going 3 m/s feels an acceleration for 4 seconds. If during this time it travels –16 m, find the acceleration.

Measuring 8—p2

Use Graph 3 to answer questions 19-23. Which line segment or segments show the object ...

- 19) at rest?
- 20) going fast?
- 21) going slow?
- 22) going backwards?
- 23) going forward?
- 24) Burning fossil fuels (like _____) contributes to what problem with our earth?



25) Why does loss of habitat affect future generations of animals? (Other than "extinction.")