2008 **A-Day: Due Wed., Aug 27 (Assigned: 8/25)**
B-Day: Due Thurs., Aug 28 (Assigned: 8/26)

Answer the following using the "Speed" notes.

1) Mark these as Speed, Distance, Time, or Other

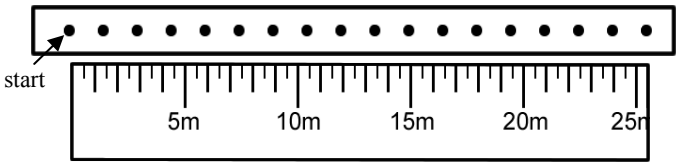
_____5 mm/sec	_____20 meters/sec	____ 15 ft/min
_____10 inches	_____228 meters	____ 78 sec
_____50 m/s^2	_____ 8 minutes	____ 6 Newtons

2) True or false (and why): "A fast car goes farther."

3) Can a slow object travel as far as a fast object? Explain.

4) Why do we have to use change of distance (ΔD) instead of just distance (D)?

5) Is the above motion at constant speed?
6) Why or why not?



7) Each dot = 1 sec. How long did it take to go 15 m?

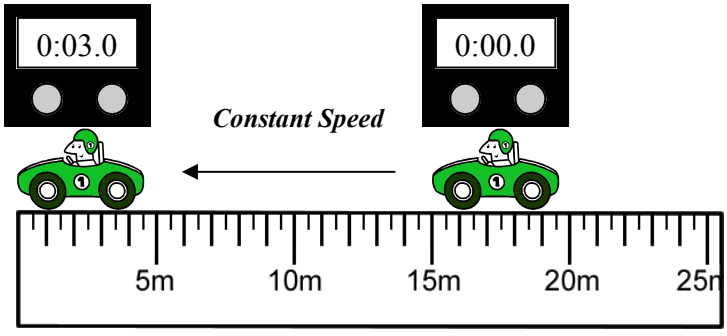
8) Calculate the object's speed.

9) How would the dots change if it were moving faster?

More on back
For each of the next four problems, follow the procedure given.
Let's see if we can't remind ourselves of things we have previously learned in math….

22. A car travels 200 miles in 4 hours. Calculate the car's speed in meters per sec. (1 mile = 5280 ft)

22. Using the diagram at the right, calculate the speed of the car. (*Be sure to follow the notes.)*



23. *Do the following math problems, giving the answers with the correct number of Sig. Figs.*
A. 2(8) = B. 12.28 + 5 =

C. 1,000/25 = D. 3.0002— 13,500 =

E. 12,000.0(4.0003) =

24. A. Convert 8.9 cm to micrometers (μm). B. Convert 4.2 weeks to seconds.

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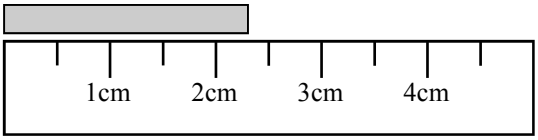
25. Measure the object with the ruler.



26. If you measure with the ruler four times, will your answer change?

27. Is it likely that your answer is accurate?

28. If other students read with this ruler, are they likely to get the same exact answer as you?

29. Is the ruler precise?

30. Give definitions for accuracy and ruler.