

Motion Lab Conclusions - Part A

1. Your graph of total time and total displacement is what shape? _____
This shows that displacement and time are _____ proportional.
2. How do you change a proportion into an equation? _____
3. What does the constant tell you about your line? _____
4. The slope of a line can be found by drawing a rise/run triangle. The general equation for slope is:

slope = _____
5. Follow instructions from video to find the slope of your "d vs t" graph. Show your work here.

6. In this lab, the slope should = _____ cm/s. The slope represented _____.
7. The last column of data showed that the instantaneous velocity of the cart stayed at _____ cm/s.
8. The average velocity ($d_{\text{total}} / t_{\text{total}}$) = _____ cm/s.
9. The graph of the "v vs t" graph was a _____ (sloped, flat) line.
10. This type of motion is called _____ motion.