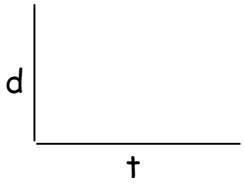
Lab: Motion – Conclusions, Part B **Name**_____

1. The dots on your timer tape started out close together, then spread out throughout the trip. What does this tell you about the motion of the cart?
   _____

2. Your graph of total time and total displacement is what shape? _____
   Sketch it here:



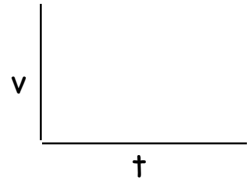
3. This means that the slope is _____ (constant, changing).

4. The slope (rise/run) represents the _____ of the cart. So the velocity of the cart is _____ (constant, changing).

5. The last column of data showed that the instantaneous velocity of the cart _____.

6. Fill in the symbol ($=, \neq$) that will make the statement true for this part of the lab. V_{avg} _____ V_{inst}

7. The graph of the "v vs t" graph was a _____ (sloped, flat) line.
   Sketch it here:



8. This type of motion is called _____ motion.