Student Data Table:

Angle of Ramp _____

Time (tu)	Distance traveled (cm)
1 tu	
2 tu	
3 tu	
4 tu	
5 tu	
6 tu	
7 tu	
8 tu	

Calculate the average velocity for the entire run:

Total Distance Covered _____

Total time _____

V_{avg} (d/t) _____

Do you think your car traveled at the same velocity the entire time? Support your answer with information from your graph.

Optional Section:

Time (tu)	Distance Traveled Each Time Interval (cm)	Average velocity for each Time Interval (cm/tu) Distance /1 tu
0-1 tu		
1-2 tu		
2–3 tu		
3–4 tu		
4-5 tu		
5-6 tu		
6-7 tu		
7-8 tu		

Calculate slope:

_____ Initial Y value

_____ Final Y value

_____ Change in Y value

_____ Initial X value

_____ Final X value

_____ Change in X value

_____ Slope (Change in Y value/ Change in X value)

Describe the motion of your car using information from your second graph.