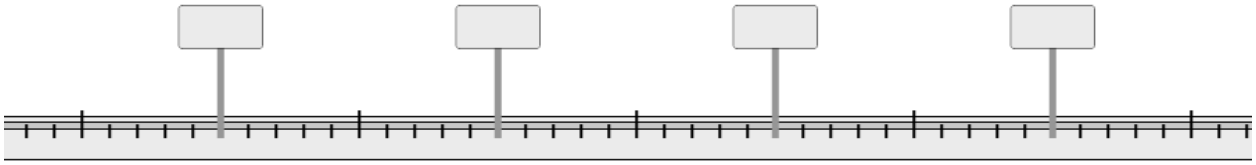
Stopping Distance Problem

Step 1: Show the approximate stopping location of your car and then give all the variables for your problem (mass of car, gravitational field, and initial speed)



Step 2: Fill in the three values about the object's motion that you know and then solve for the two that you don't know. Show all your work neatly below

Δx	
v_i	
vf	
a	
t	

Step 3: Use the acceleration that you calculated to find the force causing the car to stop (Force Friction)

Step 4: Show all the forces on the car given below and then calculate the values of force gravity and force normal.

Step 5: Using the force friction from step 3 and the force normal from step 4, find the coefficient of friction between the tires and the roadway. Enter your answers into the program to verify that you did everything correctly