## Momentum Conservation 2 (One @ Rest)

Step 1: Give the mass on top of car 2 and the velocity of car 2 in the space below. Then neatly calculate the momentum of car two before the cars collide.



Step 2: After you crash the cars together, give the velocity of the system with a velocity vector arrow in the picture below.



Step 3: Use conservation of momentum to find the total mass of the system. Show all your work neatly in the space below.

Step 4: Finally, find the mass on top of car 1. Enter your answers into the program to see if you did all your work correctly.