

## Momentum Conservation 4 (Head-on Collision)

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



Step 2: Your cars will crash into each other and stick together. Use the idea of conservation of momentum to predict the velocity of the two cars after they collide and stick together. Show your work neatly below. Enter your answers into the program to see if you did all your work correctly. Remember, if the cars are moving to the left, the momentum and velocities are negative

