1. Eli is subjected to a crazy physics experiment and is hurled down the hallway on two very shaky carts. If Eli has a mass of 70 kilograms, find:

   a. Write the formula for momentum including units.

   b. Write the formula for impulse including units.

   c. Show how change in momentum equals impulse

   d. If Eli covers 10 meters in 3.2 seconds, determine Eli’s average velocity

   e. Calculate Eli’s momentum

   f. Chelsea and Nathan attempt to stop Eli, they bring him to a rest in 0.75 seconds. Determine how much force was imparted on Eli to bring him to a rest.

   g. What is the impulse imparted onto Eli?

   h. What is Eli’s change in momentum

   i. How much momentum is left after Eli is brought to a stop?

   j. If during the next trial Chelsea and Nathan stop Eli in 0.30 seconds, how much force did they impart onto Eli?

   i. Does this change the impulse on Eli? State yes or no and explain your answer.