

Phys171 - Tue 3/6

Today: Chapter 9

Thu start Ch 10

Consider two carts, of masses m and $2m$, at rest on an air track. If you push first one cart for 3 s and then the other for the same length of time, exerting equal force on each, the momentum of the light cart is

1. four times
2. Twice
3. equal to
4. one-half
5. one-quarter

that of the heavy cart

A ball on a table slides and hits a block. In each case, the ball hits the block going at the same speed. Which ball exerts the most impulse on the block?

