

Concept-Development Practice Page

B-1

Knowledge

1. A moving car has momentum. If it comes to a halt, its momentum is _____ as much.
(none)
2. Two cars, one twice as heavy as the other, move down a hill at the same speed. Compared to the lighter car, the momentum of the heavier car is _____ as much.
(twice)
3. The total momentum of a cannon that fires is _____ (more than) _____ (less than) _____ (the same as) _____ the momentum of the cannonball it fires.
(Although the speed and acceleration of the cannonball are greater.)
4. If a train slowly loads a cannon shell fired, then the momentum of the cannonball is equal to the total momentum of the _____ (cannon-shell system) _____ (train-shell).
(cannon-shell system)
5. Suppose you are traveling in a bus at highway speed on a nice summer day and the momentum of an outside bag is suddenly changed as it splatters onto the front window.
 - a. Compared to the force that acts on the bag, how much force acts on the bus?
(the same)
 - b. The time of impact is the same for both the bag and the bus. Compared to the impulse on the bag, this means the impulse on the bus is _____ (the same) _____ (less).
(the same)
 - c. Although the momentum of the bus is very large compared to the momentum of the bag, the change in momentum of the bus, compared to the change in momentum of the bag, is _____ (the same) _____ (less).
(the same)
 - d. Which undergoes the greater acceleration?
(Both the same) (bag)
 - e. Which, therefore, suffers the greater damage?
(Both the same) (The bag of course)



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