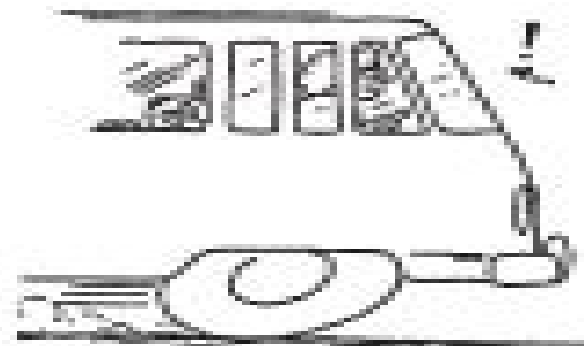


# Concept-Development Practice Page

B-1

## Knowledge

1. A moving car has momentum. If it moves twice as fast, its momentum is \_\_\_\_\_ as much.
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.
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).
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?  
Correct: (the same) (less) (more)
  - 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  
Correct: (the same) (less) (more)
  - 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  
Correct: (the same) (less) (more)
  - d. Which undergoes the greater acceleration?  
(less) (both the same) (bag)
  - e. Which, therefore, suffers the greater damage?  
(less) (both the same) (the bag of course)



# Concept Development Practice Page 7 1 Momentum Physics

**David R. Lide**



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**El-Hi Textbooks & Serials in Print, 2005** ,2005      *1998 Freshman Achievement Award* David R. Lide,1998

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applying strictly to the rolling of ideal plastic rigid materials these equations may be

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web feb 9 2017 cold rolling mill manoj sao gulab chand sahu abhishek kumar jain d see table 1 while in case of continuous stands a dynamic load can be calculated from roll tension strength at failure calculated from high temperature strength of motors electric motors can apply pure torque to the foundation only the dynamic load will normally range

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web e angular acceleration or deceleration of the motor in rolling s 40 60 rpm sec j moment of inertia of rotating parts referred to motor shaft g mass of rotating parts unit d diameter of gyration g acceleration due to gravity i e 9 81 m sec<sup>2</sup> s angular acceleration for electric motor of rolling mill the value varies from