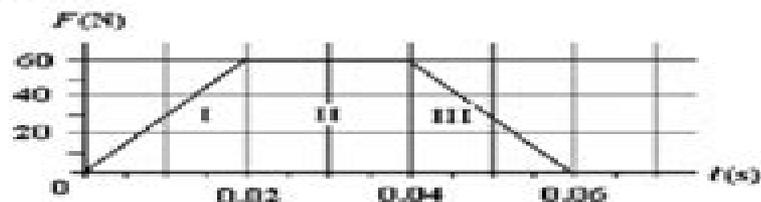


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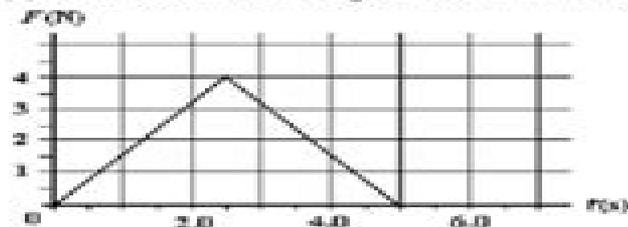
### Short Answer

1. What is the momentum of a 1000 kg car moving at 15 m/s [E]?
2. Calculate the momentum of each of the following objects.
  - (a) a 0.50 kg ball thrown upward with a velocity of 30 m/s
  - (b) a 2000 kg railway car moving south at 10 m/s
  - (c) an electron of mass  $9.1 \times 10^{-31}$  kg, moving at a velocity of  $1.0 \times 10^7$  m/s
  - (d) the Earth, of mass  $6.0 \times 10^{24}$  kg, moving along its solar orbit with a velocity of  $3.0 \times 10^4$  m/s.
3. The momentum of a 7.3 kg shot is 22 kg·m/s [forward]. What is its velocity?
4. A bullet travelling at 900 m/s has a momentum of 4.5 kg·m/s. What is its mass?
5. What is the impulse given to a golf ball by a club if they are in contact for 0.0050 s, during which the club exerts an average force of 500 N on the ball?
6. The graph below approximates the force applied to a tennis ball by a racket during the time they are in contact.



What impulse does the ball receive from the racket?

7. What impulse is exerted in each of the following cases?
  - (a) a force of 25 N [E] on a dynamics cart for 3.2 s
  - (b) a hockey stick exerting a force of 120 N on a puck during the 0.05 s they are in contact
  - (c) the Earth pulling down on a 12 kg rock during the 3.0 s it takes to fall from a cliff
  - (d) a billiard ball bouncing off a cushion, if the force-time graph of the collision appears as below



- (e) a collision between a toy car and a brick wall, if the force-time graph of the collision appears as below

# Momentum Energy Extra Study Questions

**J Elliott**



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