

- 9** What is a statement of the principle of conservation of momentum?
- A** A force is equal to the rate of change of momentum of the body upon which it acts.
  - B** In a perfectly elastic collision, the relative momentum of the bodies before impact is equal to their relative momentum after impact.
  - C** The momentum of a body is the product of the mass of the body and its velocity.
  - D** The total momentum of a system of interacting bodies remains constant, providing no resultant external force acts on the system.