

10 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 object upon which it acts.
- B** In a perfectly elastic collision, the relative momentum of the objects before impact is equal to their relative momentum after impact.
- C** The momentum of an object is the product of the mass of the object and its velocity.
- D** The total momentum of a system of interacting objects remains constant, providing no resultant external force acts on the system.