10   The diagram below shows two spheres undergoing a head-on elastic collision. Sphere A
      has mass $2M$ while sphere B has mass M. Both are moving with speed v towards each
      other.

Which of the following statements is incorrect?

A   The two spheres cannot come to rest at the same time.
B   The total kinetic energy of both spheres is conserved throughout the collision.
C   The magnitude of the change in momentum for each sphere is the same after the
        collision.
D   The force exerted by sphere A on B is equal and opposite to the force exerted by
        B on A during the collision.