

- 9 A body X collides with a body Y. The two bodies stick together on impact and then move together.



X



Y

before impact



X

Y



after impact

Which statement is correct?

- A Some of X's momentum becomes kinetic energy of Y.
- B Some of X's momentum is lost as heat.
- C The momentum of the system is reduced by the forces during impact.
- D X transfers some of its momentum to Y.