

**8** Two asteroids deep in space are involved in an inelastic collision.

Which of the quantities, kinetic energy and momentum, are conserved?

- A** Kinetic energy and momentum are both conserved.
- B** Kinetic energy is conserved but momentum is not conserved.
- C** Kinetic energy is not conserved but momentum is conserved.
- D** Neither kinetic energy nor momentum is conserved.