

- 10** An object of mass m moving with velocity 9.0 m s^{-1} has a head-on elastic collision with a stationary object of mass $2m$.

After the collision, both objects are moving. No external forces act on the system.

What is the velocity of the object of mass $2m$ after the collision?

- A** -6.0 m s^{-1} **B** -3.0 m s^{-1} **C** 4.5 m s^{-1} **D** 6.0 m s^{-1}