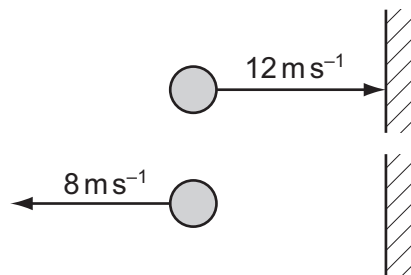


- 12** A ball of mass  $0.5\text{ kg}$  is thrown against a wall at a speed of  $12\text{ m s}^{-1}$ . It bounces back with a speed of  $8\text{ m s}^{-1}$ . The collision lasts for  $0.10\text{ s}$ .



What is the average force on the ball due to the collision?

- A**  $0.2\text{ N}$       **B**  $1\text{ N}$       **C**  $20\text{ N}$       **D**  $100\text{ N}$

**Space for working**