

- 7 A ball of mass 80 g collides with a vertical wall. The ball has a velocity of  $23 \text{ m s}^{-1}$  in a horizontal direction. After hitting the wall the ball moves with a velocity of  $18 \text{ m s}^{-1}$  in the opposite direction.

What is the impulse provided by the wall?

- A 0.40 N s in a direction away from the wall
- B 3.3 N s in a direction away from the wall
- C 33 N s in a direction towards the wall
- D 3300 N s in a direction towards the wall