

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

What is the magnitude of the impulse provided by the wall?

- A 0.40 Ns
- B 3.3 Ns
- C 400 Ns
- D 3300 Ns

