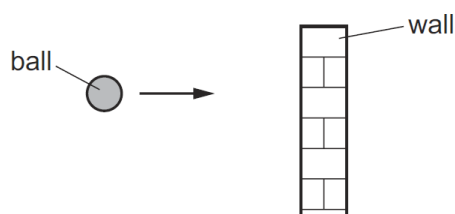


MOMENTUM-SET-2

1

A moving ball with a momentum of 25 kg m/s collides head-on with a wall.



It rebounds from the wall with the same speed but in the opposite direction. The time of collision is 50 ms .

What is the average force exerted on the wall by the ball during the collision?

- A** 0.50 N **B** 1.00 N **C** 500 N **D** 1000 N

MS-1

D

2

An electron is moving at a speed of $5 \times 10^6 \text{ m/s}$.

A neutron is moving at a speed of $5 \times 10^4 \text{ m/s}$.

The mass of the electron is m .

The mass of the neutron is $2000m$.

Which row is correct?

	greater momentum	greater kinetic energy
A	electron	electron
B	electron	neutron
C	neutron	electron
D	neutron	neutron

MS-2

C

3	<p>The momentum of a body is changed by a force acting on it for a period of time.</p> <p>Which action increases the change in momentum?</p> <p>A doubling the force and halving the time</p> <p>B doubling the force for the same time</p> <p>C halving both the force and time</p> <p>D halving the force and doubling the time</p>
MS-3	B