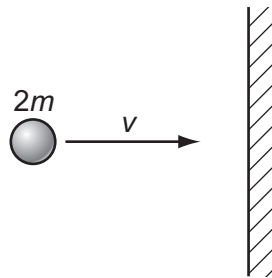


- 8 A moving body undergoes uniform acceleration while travelling in a straight line between points X, Y and Z. The distances XY and YZ are both 40 m. The time to travel from X to Y is 12 s and from Y to Z is 6.0 s.

What is the acceleration of the body?

- A 0.37 m s^{-2} B 0.49 m s^{-2} C 0.56 m s^{-2} D 1.1 m s^{-2}

- 9 A particle of mass $2m$ and velocity v strikes a wall.



The particle rebounds along the same path after colliding with the wall. The collision is inelastic.

What is a possible change in the momentum of the ball during the collision?

- A mv B $2mv$ C $3mv$ D $4mv$

- 10 Which defines the weight of a body?

- A the amount of matter in the body
B the force of gravity on the body
C the number of particles in the body
D the product of the body's volume and density

Space for working