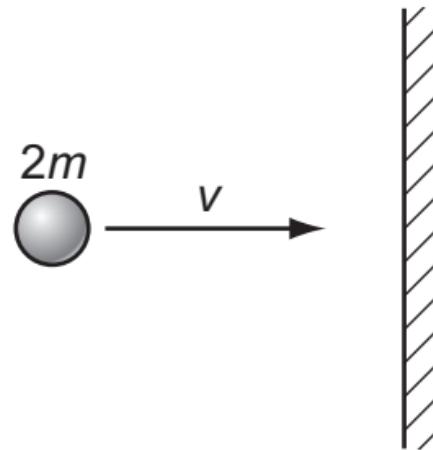


**9** A particle of mass  $2m$  and velocity  $v$  strikes a wall.



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?