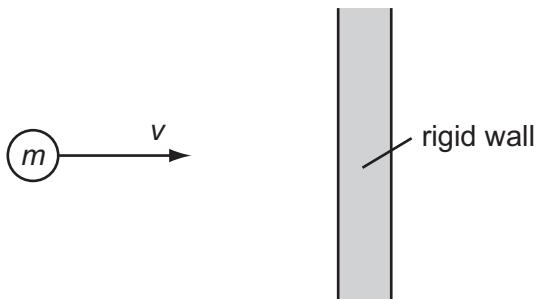


11 A particle of mass  $m$  strikes a vertical rigid wall perpendicularly from the left with velocity  $v$ .



If the collision is perfectly elastic, the total change in momentum of the particle that occurs as a result of the collision is

- A  $2mv$  to the right.
- B  $2mv$  to the left.
- C  $mv$  to the right.
- D  $mv$  to the left.