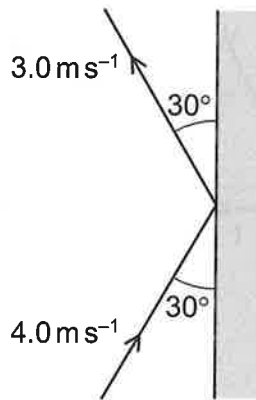


- 2 A ball of mass  $1.0 \text{ kg}$  moving at  $4.0 \text{ m s}^{-1}$  rebounds from a wall at  $3.0 \text{ m s}^{-1}$ , as shown.



What is the component of the change in momentum of the ball **perpendicular** to the wall?

- A  $0.5 \text{ kg m s}^{-1}$     B  $1.0 \text{ kg m s}^{-1}$     C  $3.5 \text{ kg m s}^{-1}$     D  $7.0 \text{ kg m s}^{-1}$