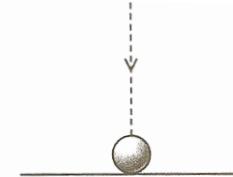


- 4** A ball falls vertically on to a horizontal surface. The momentum of the ball just before it hits the surface is mv .



The ball collides inelastically with the surface and rebounds from it.

What is a possible value for the magnitude of the change in momentum of the ball from just before until just after contact with the surface?

- A** $0.25mv$
- B** $1.0mv$
- C** $1.25mv$
- D** $2.0mv$

