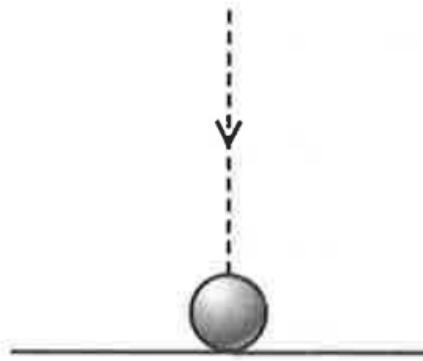


- 5 A ball falls vertically on to a horizontal surface. The momentum of the ball just before it hits the surface is  $p$ .



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  $0.5p$

B  $1.0p$

C  $1.5p$

D  $2.0p$

- 6 A brick rests on the floor. The forces on it are its weight  $W$  and a support force  $S$  from the floor.