

- 4 A small ball P moves with speed  $v$  towards another identical ball Q along a line joining the centres of the two balls. Ball Q is at rest initially and they collide elastically.



Which of the following shows the final velocities of the balls?

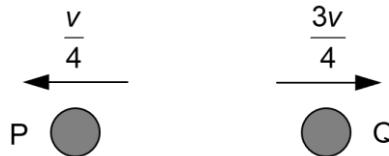
**A**



**B**



**C**



**D**



[Turn over]