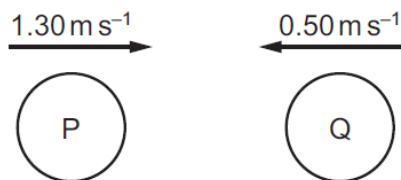


- 4 Two balls P and Q, of equal mass, move along a straight line directly towards each other as shown.



Ball P has velocity 1.30 m s^{-1} to the right. Ball Q has velocity 0.50 m s^{-1} to the left.

P and Q collide with one another. The collision is perfectly elastic and the total momentum is conserved.

Which diagram correctly shows the motion of P and Q after the collision?

