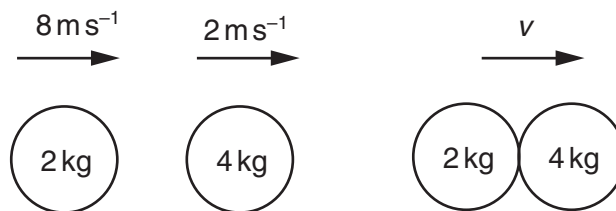


- 12** A ball of mass 2 kg travelling at 8 m s^{-1} strikes a ball of mass 4 kg travelling at 2 m s^{-1} . Both balls are moving along the same straight line as shown.



After collision, both balls move at the same velocity v .

What is the magnitude of the velocity v ?

- A** 4 m s^{-1} **B** 5 m s^{-1} **C** 6 m s^{-1} **D** 8 m s^{-1}