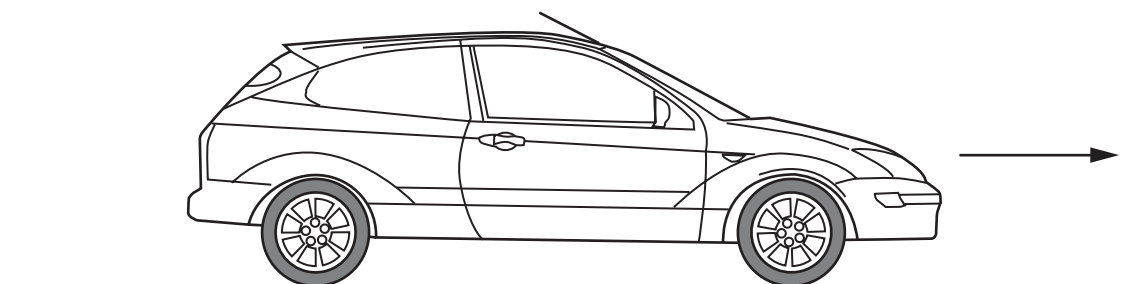


- 11 A car with front-wheel drive accelerates in the direction shown.



Which diagram best shows the direction of the total force exerted by the road on the front wheels?

A



B



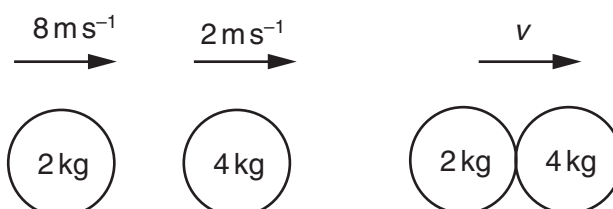
C



D



- 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}