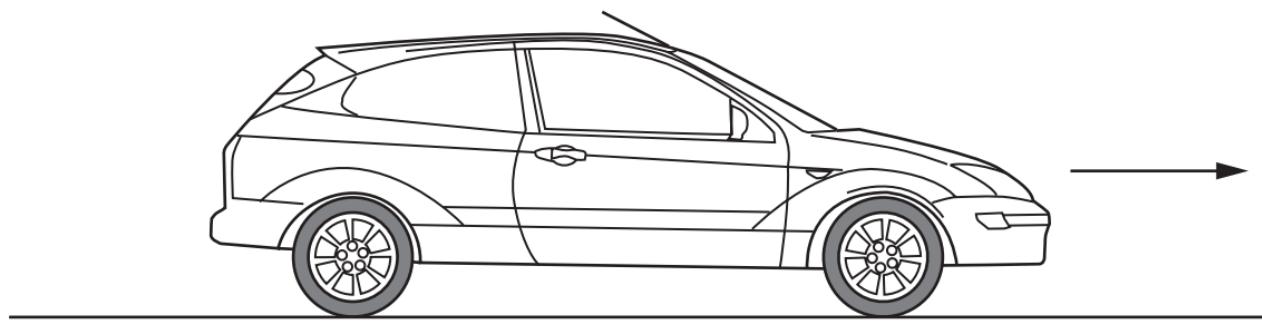


**11** A car with front-wheel drive accelerates in the direction shown.



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  $8 \text{ m s}^{-1}$  strikes a ball of mass 4 kg travelling at  $2 \text{ m s}^{-1}$ . Both balls