

- 7 A car travels with a velocity of  $3 \text{ m s}^{-1}$ . The car accelerates uniformly in a straight line for a distance of 15 m. The final velocity of the car is  $5 \text{ m s}^{-1}$ .

Which of the following expressions gives the acceleration of the car in  $\text{m s}^{-2}$ ?

☐ A  $\frac{5 - 3}{15}$

☐ B  $\frac{5 - 3}{2 \times 15}$

☐ C  $\frac{5^2 - 3^2}{15}$

☐ D  $\frac{5^2 - 3^2}{2 \times 15}$

(Total for Question 7 = 1 mark)