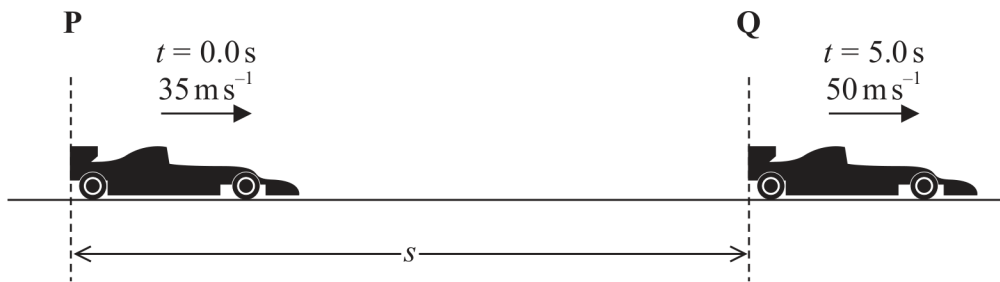


- 5 A racing car passes point P at a speed of 35 m s^{-1} .

The car accelerates uniformly and after 5.0 s passes point Q at a speed of 50 m s^{-1} , as shown.



Which of the following expressions gives the distance s , in metres, between the two points?

- ☐ A $\frac{50^2 - 35^2}{2 \times 5}$
- ☐ B $(35 \times 5) + (0.5 \times 9.81 \times 5^2)$
- ☐ C $0.5 \times (35 + 50) \times 5$
- ☐ D $35 + (9.81 \times 5)$

(Total for Question 5 = 1 mark)