

- 7 A car is travelling with uniform acceleration along a straight road. The road has marker posts every 100 m. When the car passes one post, it has a speed of 10 m s^{-1} and, when it passes the next one, its speed is 20 m s^{-1} .

What is the car's acceleration?

A 0.67 ms^{-2}

B 1.5 ms^{-2}

C 2.5 ms^{-2}

D 6.0 ms^{-2}