

- 6** A bicycle brakes so that it undergoes uniform deceleration from a speed of  $8 \text{ m s}^{-1}$  to  $6 \text{ m s}^{-1}$  over a distance of 7 m.

The deceleration of the bicycle remains constant.

Which further distance will the bicycle travel before coming to rest?

**A** 7 m

**B** 9 m

**C** 16 m

**D** 21 m