

- 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  $7 \text{ m}$ .

The deceleration of the bicycle remains constant.

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

**A**  $7 \text{ m}$

**B**  $9 \text{ m}$

**C**  $16 \text{ m}$

**D**  $21 \text{ m}$