

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

If the deceleration of the bicycle remains constant, what further distance will it travel before coming to rest?

**A** 7 m

**B** 9 m

**C** 16 m

**D** 21 m

**9** A ball is released from rest above a horizontal surface. It bounces once and is caught.