

**18** A ball of mass 1.2 kg travels horizontally at a speed of  $3.0 \text{ m s}^{-1}$ .

The ball hits a cushion and comes to rest over a horizontal distance of 0.020 m.

What is the work done by the cushion on the ball to bring the ball to rest?

**A** 0.24 J

**B** 1.8 J

**C** 5.4 J

**D** 11 J