

18 A ball of mass 1.2 kg travels horizontally at a speed of 3.0 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