9 A snooker ball of mass 200 g hits the cushion of a snooker table at right-angles with a speed of 14.0 m s^{-1}.
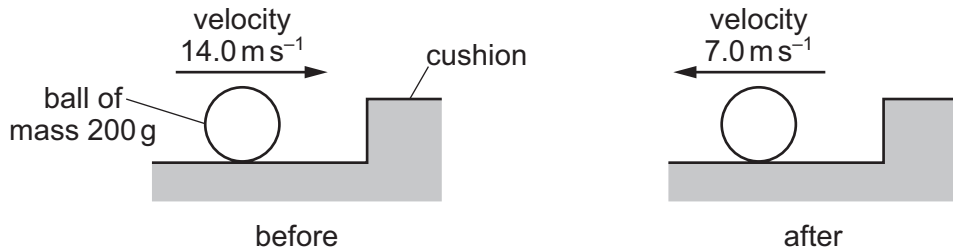
The ball rebounds with half of its initial speed. The ball is in contact with the cushion for 0.60 s.

velocity 14.0 m s^{-1}

cushion

ball of mass 200 g

velocity 7.0 m s^{-1}

before

after

What is the average force exerted on the ball by the cushion?

A 2.3 N **B** 7.0 N **C** 2300 N **D** 7000 N