

- 8** A snooker ball has a mass of 200 g. It hits the cushion of a snooker table and rebounds along its original path.

The ball arrives at the cushion with a speed of  $14.0 \text{ m s}^{-1}$  and then leaves it with a speed of  $7.0 \text{ m s}^{-1}$ . The ball and the cushion are in contact for a time of 0.60 s.

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

- A** 1.4 N                      **B** 2.3 N                      **C** 4.2 N                      **D** 7.0 N