

- 6** A steel ball of mass m is dropped vertically onto a steel table. The ball is in contact with the table for a very short duration and it rebounds with very little loss in kinetic energy.

Which one of the following statements concerning the average force F exerted on the ball by the table during the collision is correct?

- A** F is smaller than mg .
- B** F is greater than mg .
- C** F is greater than the force that the ball exerted on the table during the collision.
- D** F is smaller than the force that the ball exerted on the table during the collision.