

- 6** A ball is thrown vertically upwards from ground level and reaches a maximum height of 12.7 m before falling back to ground level.

Assume air resistance is negligible.

What is the total time for which the ball is in the air?

**A** 1.61 s

**B** 3.22 s

**C** 3.88 s

**D** 5.18 s

- 7** A snooker ball has a mass of 200 g. It hits the cushion of a snooker table and rebounds along its original path at 1.5 times the speed it had before impact.