

- 6** A boy with a ball was in a stationary lift. When the lift starts to accelerate upwards at 1.2 m s^{-2} , the boy released the ball from a height of 1.5 m above the floor of the lift.

What is the time taken by the ball to hit the floor of the lift?

A 0.27 s

B 0.52 s

C 0.55 s

D 0.59 s

- 7** Two blocks of masses $m_1 = 1.0 \text{ kg}$ and $m_2 = 1.0 \text{ kg}$ are connected by a cord of negligible mass