

- 5** On a planet, a vertically-launched projectile takes 12.5 s to return to its starting position. The projectile gains a maximum height of 170 m. The planet does not have an atmosphere.

What is the acceleration of free fall on this planet?

- A** 2.2 m s^{-2} **B** 8.7 m s^{-2} **C** 27 m s^{-2} **D** 54 m s^{-2}