

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

What is the acceleration of free fall on this planet?

A 2.2 ms^{-2}

B 8.7 ms^{-2}

C 27 ms^{-2}

D 54 ms^{-2}