

3 A ball is thrown upwards vertically near Earth's surface.

It takes a time of 3.20 s to return to the initial position.

Assume air resistance is negligible.

What is the initial speed with which the ball is thrown?

A 3.07 m s⁻¹

B 7.85 m s⁻¹

C 15.7 m s⁻¹

D 31.4 m s⁻¹