

5 A stone falls vertically from rest. Air resistance is negligible.

What is the speed of the stone when it has fallen through a distance of 0.40 m?

A  $2.0 \text{ ms}^{-1}$

B  $2.8 \text{ ms}^{-1}$

C  $3.9 \text{ ms}^{-1}$

D  $7.8 \text{ ms}^{-1}$