

- 4 A 3.0 kg block is moving on a smooth surface with a speed of 2.0 m s^{-1} . A constant force of 1.5 N is exerted on the block over 2.0 s in a fixed direction.

Which of the following cannot be the magnitude of its final speed?

- A** 0.5 m s^{-1} **B** 1.0 m s^{-1} **C** 2.0 m s^{-1} **D** 3.0 m s^{-1}