

- 4** An object is moving in a straight line. It now accelerates with a constant acceleration of  $0.50\text{ m s}^{-2}$  and travels a distance of 600 m while accelerating. The journey while accelerating takes 40 s.

What is the final speed of the object?

- A**  $5.0\text{ ms}^{-1}$       **B**  $7.5\text{ ms}^{-1}$       **C**  $15\text{ ms}^{-1}$       **D**  $25\text{ ms}^{-1}$

