

5 In an experiment, a radio-controlled car takes 2.50 ± 0.05 s to travel 40.0 ± 0.1 m.

What is the car's average speed and the uncertainty in this value?

- A** $16 \pm 1 \text{ ms}^{-1}$
- B** $16.0 \pm 0.2 \text{ ms}^{-1}$
- C** $16.0 \pm 0.4 \text{ ms}^{-1}$
- D** $16.00 \pm 0.36 \text{ ms}^{-1}$

6 In an experiment to determine the acceleration of free fall using a falling body, what would lead to