

- 8** In a cathode-ray tube, an electron is accelerated uniformly in a straight line from a speed of $4 \times 10^3 \text{ m s}^{-1}$ to $2 \times 10^7 \text{ m s}^{-1}$ over a distance of 10 mm.

What is the acceleration of the electron?

- A** $2 \times 10^3 \text{ m s}^{-2}$
- B** $2 \times 10^6 \text{ m s}^{-2}$
- C** $2 \times 10^{13} \text{ m s}^{-2}$
- D** $2 \times 10^{16} \text{ m s}^{-2}$

Space for working