- 1 Which term represents a physical quantity?
  A metre
  B percentage uncertainty
  C quark flavour
- 2 Which two units are identical when expressed in terms of SI base units?
  - **A**  $JC^{-1}$  and  $kg m^2 A^{-1} s^{-2}$
  - **B** Js and  $kg m^2 s^{-1}$

**D** spring constant

- **C** N m and kg  $\text{m}^3 \text{s}^{-2}$
- **D** Ns and  $kg m s^{-3}$
- 3 A value for the acceleration of free fall on Earth is given as  $(10 \pm 2) \, \text{m s}^{-2}$ .

Which statement is correct?

- **A** The value is accurate but not precise.
- **B** The value is both precise and accurate.
- **C** The value is neither precise nor accurate.
- **D** The value is precise but not accurate.