- 1 Which statement using prefixes of the base unit metre (m) is **not** correct?
 - **A** 1 pm = 10^{-12} m
 - **B** $1 \text{ nm} = 10^{-9} \text{ m}$
 - **C** $1 \text{ Mm} = 10^6 \text{ m}$
 - **D** $1 \text{ Gm} = 10^{12} \text{ m}$
- 2 An Olympic athlete of mass 80 kg competes in a 100 m race.

What is the best estimate of his mean kinetic energy during the race?

- $\mathbf{A} \quad 4 \times 10^2 \, \mathrm{J}$
- $\textbf{B} \quad 4\times 10^3 \, J$
- $\mathbf{C} \quad 4 \times 10^4 \, \mathrm{J}$
- $D \quad 4 \times 10^5 J$
- 3 Which group of quantities contains only vectors?
 - A acceleration, displacement, speed
 - **B** acceleration, work, electric field strength
 - C displacement, force, velocity
 - **D** power, electric field strength, force

Space for working