

3 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?

A $4 \times 10^2 \text{ J}$

B $4 \times 10^3 \text{ J}$

C $4 \times 10^4 \text{ J}$

D $4 \times 10^5 \text{ J}$

4 In an experiment, a radio-controlled car takes $2.50 \pm 0.05 \text{ s}$ to travel $40.0 \pm 0.1 \text{ m}$.