

**1** A train of mass 600 000 kg moves with a speed of  $100 \text{ km h}^{-1}$ .

What is the order of magnitude of the kinetic energy of the train?

**A**  $10^6 \text{ J}$

**B**  $10^8 \text{ J}$

**C**  $10^{10} \text{ J}$

**D**  $10^{12} \text{ J}$