1 A car is travelling at a speed of $20\,\text{m s}^{-1}$. The table contains values for the kinetic energy and the momentum of the car.

Which values are reasonable estimates?

	kinetic energy / J	momentum /kg m s^{-1}
A	3×10^5	3×10^4
B	3×10^5	5×10^6
C	2×10^7	3×10^4
D	2×10^7	5×10^6

2 What is the unit of resistance when expressed in SI base units?

A $\text{kg m}^2\,\text{s}^{-2}\,\text{A}^{-1}$

B $\text{kg m}^2\,\text{s}^{-3}\,\text{A}^{-2}$

C $\text{kg m s}^{-2}\,\text{A}^{-1}$

D $\text{kg m s}^{-3}\,\text{A}^{-1}$

3 Which list contains both scalar and vector quantities?

A acceleration, momentum, velocity, weight

B area, current, force, work

C distance, kinetic energy, power, pressure

D mass, temperature, time, speed