- 1 Which quantity with its unit is correct?
 - **A** acceleration of a bicycle = $1.4 \,\mathrm{m\,s^{-1}}$
 - **B** electric current in a lamp = $0.25 \,\mathrm{A \, s^{-1}}$
 - **C** electric potential difference across a battery = $8.0 \,\mathrm{J}\,\mathrm{C}^{-1}$
 - **D** kinetic energy of a car = $4500 \,\mathrm{N}\,\mathrm{m}^{-1}$
- 2 Which two units are **not** equivalent to each other?
 - \mathbf{A} N m and kg m² s⁻²
 - **B** Ns and $kgms^{-1}$
 - C J s⁻¹ and kg m² s⁻³
 - \mathbf{D} Pa and kg m s⁻²
- **3** The arrow represents a vector R.



Which diagram does **not** represent R as two perpendicular components?

