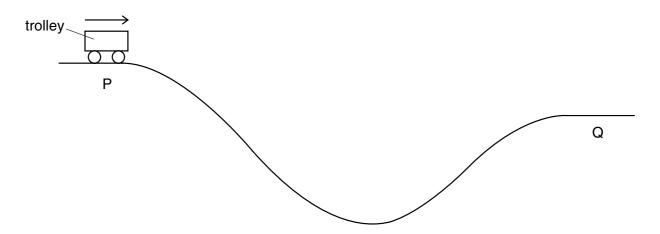
18 A trolley runs from P to Q along a track. At Q its potential energy is 50 kJ less than at P.



At P, the kinetic energy of the trolley is 5 kJ. Between P and Q the work the trolley does against friction is 10 kJ.

What is the kinetic energy of the trolley at Q?

- **A** 35 kJ
- **B** 45 kJ
- **C** 55 kJ
- **D** 65 kJ
- **19** To travel at a constant speed, a car engine provides 24 kW of useful power. The driving force on the car is 600 N.

At what speed does it travel?

- **A** $2.5 \,\mathrm{m \, s^{-1}}$
- **B** $4.0 \,\mathrm{m \, s^{-1}}$
- $C 25 \, \text{m s}^{-1}$
- **D** $40 \,\mathrm{m \, s^{-1}}$
- 20 For a given liquid at atmospheric pressure, which process can occur at any temperature?
 - **A** boiling
 - **B** evaporation
 - **C** melting
 - **D** solidification