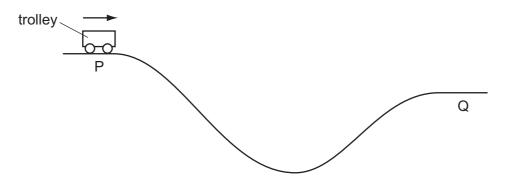
18 A trolley runs from P to Q along a track. At Q its potential energy is 50 kJ less than at P.



At P, the kinetic energy of the trolley is 5kJ. 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** An electric motor is required to produce 120 W of mechanical output power. The efficiency of the motor is 80 %.

Which row is correct?

	electrical power input to motor/W	waste heat output from motor/W
Α	120	24
В	120	96
С	150	30
D	150	120

Space for working