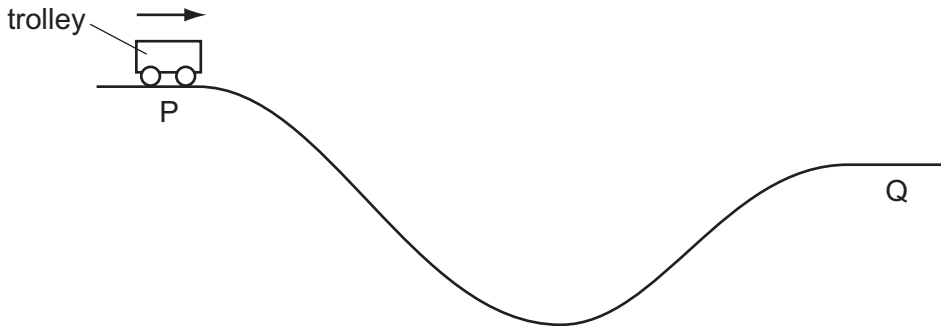


- 18** A trolley runs from P to Q along a track. At Q its potential energy is 50 kJ less than at P.



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** An electric motor is required to produce 120 W of mechanical output power. The efficiency of the