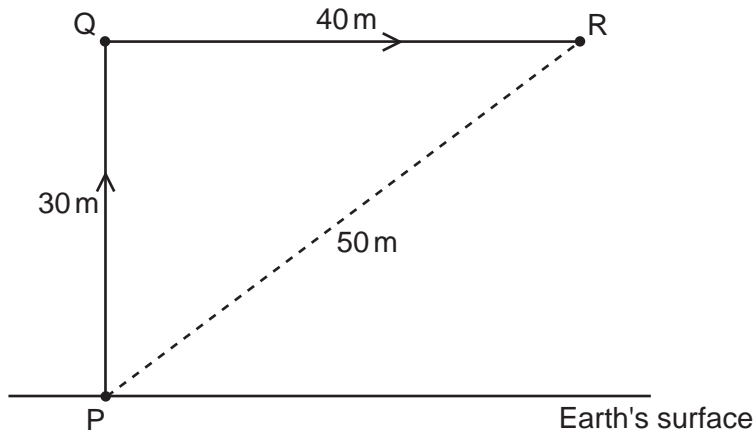


- 18** A stone of weight  $4.0\text{ N}$  in the Earth's gravitational field is moved from P to Q and then to R along the path shown.



How much potential energy does the stone gain?

- A**  $120\text{ J}$                       **B**  $200\text{ J}$                       **C**  $280\text{ J}$                       **D**  $1200\text{ J}$

- 19** Below are four short paragraphs describing the molecules in a beaker of water at  $50^\circ\text{C}$