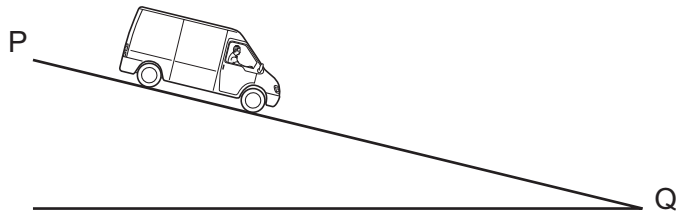


- 19** A van driver adjusts the force on a van's brakes so that the van travels at constant speed down a hill from P to Q.



The magnitude of the change in the van's kinetic energy is ΔE_k . The magnitude of the change in its gravitational potential energy is ΔE_p .

Which statement is correct?

- A** $\Delta E_k > \Delta E_p$
- B** $\Delta E_k = \Delta E_p$
- C** $\Delta E_p > \Delta E_k > 0$
- D** $\Delta E_k = 0$

- 20** Atmospheric pressure at sea level has a value of 100 kPa