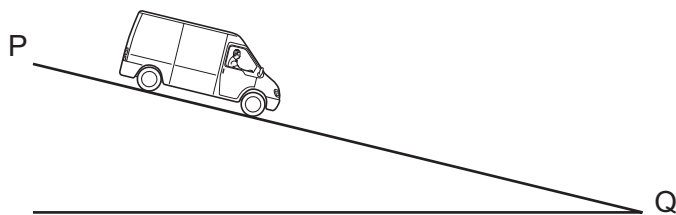


- 19 A van driver adjusts the force on a van's brakes so that the van travels at constant speed down a hill from P to Q.



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.
The density of sea water is 1020 kg m^{-3} .
- At which depth in the sea would the total pressure be 110 kPa?
- A 1.0 m
 - B 9.8 m
 - C 10 m
 - D 11 m

Space for working