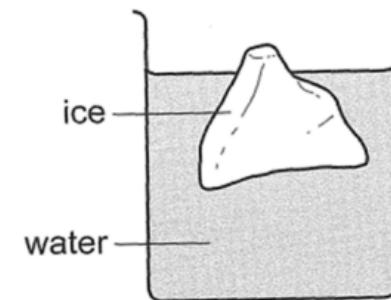


- 8 A lump of ice floats in water as shown.



Which statement is correct?

- A The lump of ice floats because the area of its lower surface is larger than the area of its upper surface.
- B The pressure difference between the lower and the upper surfaces of the lump of ice give rise to an upthrust equal to its weight.
- C The ice has a greater density than the water.
- D The mass of water displaced by the ice is equal to the upthrust.

- 9 A sphere of weight 1.6×10^{-3} N has an electric charge of $+2.0 \mu\text{C}$. It is released from rest in