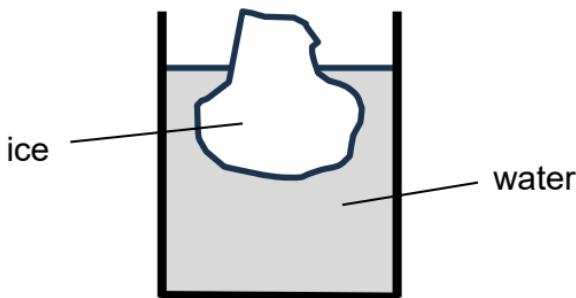


- 4 A lump of ice floats in water as shown.



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 upper surface of the lump of ice gives 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.

- 5 A uniform diving board of length 5.0 m and mass 50 kg is hinged at one end and supported