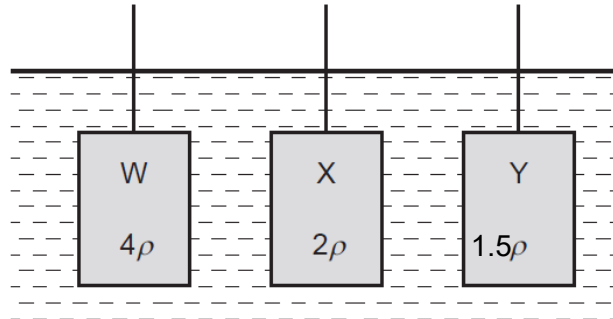


- 7 Three cuboids with identical dimensions are fully immersed in water as shown. The cuboids are held by strings in identical orientations by strings and in equilibrium at the same depth.



Water has density ρ .

Cuboid W is made of material of density 4ρ .

Cuboid X is made of material of density 2ρ .

Cuboid Y is made of material of density 1.5ρ .

Which statement is correct?

- A The upthrust on cuboid Y is equal to weight of cuboid Y.
- B The upthrust on cuboid W is two times the upthrust on cuboid X.
- C The tension of strings on each cuboid is the same
- D The tension of string on cuboid W is the greatest.

