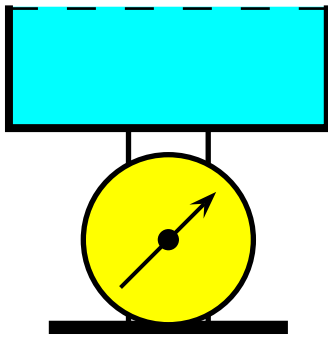
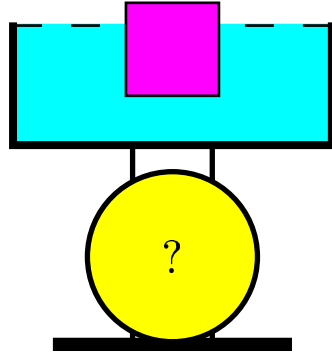


Given: Two identical containers are filled with water to the brim. One has a piece of wood floating in it(case B),



(A)



(B)

so its total weight is

- A) greater than that of case A.
- B) greater than that of case A.
- C) the same as that of case A.

The difference in the two cases is that

case A includes the weight of the “displaced water”

case B includes the weight of the block.

But according to Archimedes’ principle, these two weights are the same.

Answer **C**

15.04-02 More on the Archimedes Principle 2007-4-26