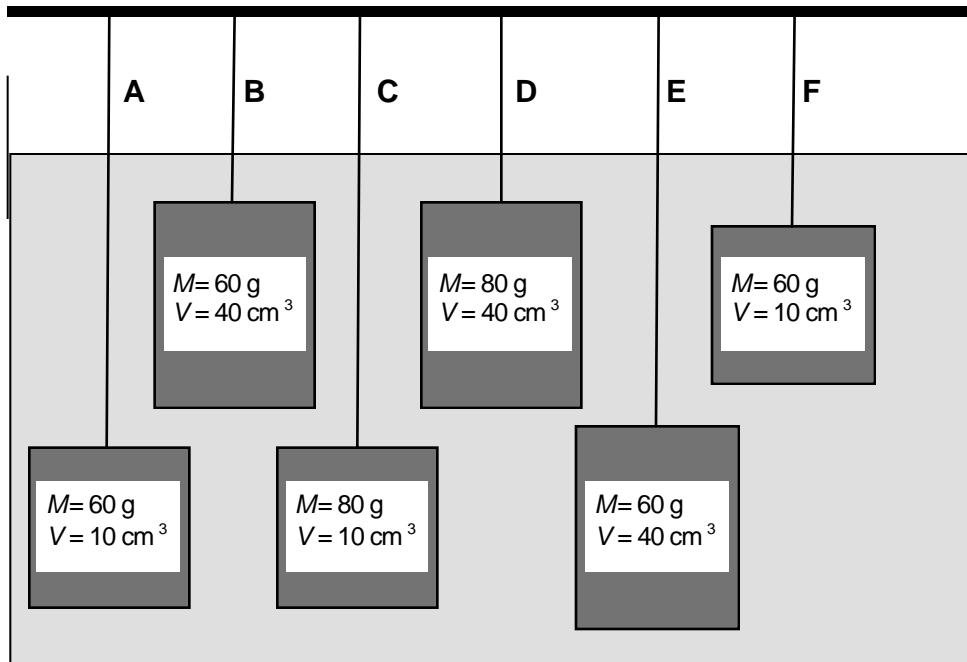


Blocks Suspended in Liquids at Different Depths—Buoyant Force ¹⁰¹

Shown below are six objects that have different masses and different volumes. These blocks are suspended at two different depths in water by being hung by a string from a supporting rod.

Rank these situations, from greatest to least, on the basis of buoyant force on the blocks by the water.



Greatest Force 1 ____ 2 ____ 3 ____ 4 ____ 5 ____ 6 ____ Least Force

Or, all of the buoyant forces on the blocks by the water are equal. _____

Or, there are no buoyant forces on the blocks by the water. _____

Or, it is not possible to determine the buoyant forces on the blocks by the water. _____

Please carefully explain your reasoning.

How sure were you of your ranking? (circle one)

Basically Guessed Sure Very Sure
 1 2 3 4 5 6 7 8 9 10

¹⁰¹ C. Hieggelke