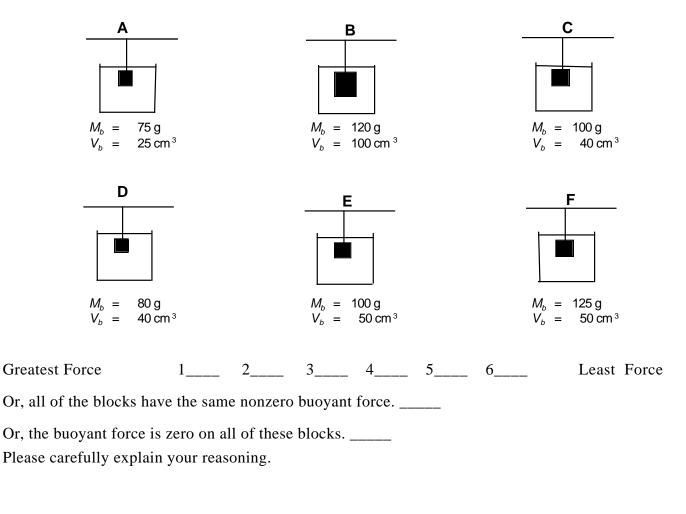
Blocks Suspended in Liquids—Buoyant Force II ¹⁰⁴

Shown below are six containers that have the same volume of the same liquid in them. Blocks of various solids are suspended in the containers by being hung from a supporting rod. The blocks vary in both size and mass. The blocks are made of different materials, but all of the blocks would sink if the strings were cut. Specific values for the masses labeled as M_b and volumes labeled as V_b of the blocks are given in each figure.

Rank these situations, from greatest to least, on the basis of the buoyant force on the blocks. That is, put first the situation that has the greatest buoyant force on the block, and put last the situation that has the lowest buoyant force on the block.



How s	sure were y	ou of your	ranking?	(circle one)						
Basically Guessed				Sure				Very Sure		
1	2	3	4	5	6	7	8	9	10	

¹⁰⁴ D. Maloney, C. Hieggelke

Ranking Task Exercises in Physics

111 Properties of Matter, Heat-Thermodynamics, Waves