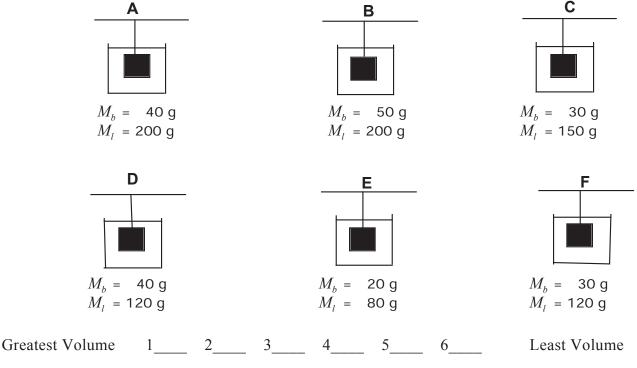
Blocks Suspended in Liquids—Volume of Liquid Displaced ⁹⁹

Shown below are six containers that contain various liquids. Blocks of various solids are suspended in the liquids by being hung from a supporting rod. All of these blocks are the same size, but they have different masses (labeled as M_b) since they are made of different materials. All of the containers have the same volume of liquid, but the masses of these liquids vary (labeled M_b) since the liquids are different. Specific values for the masses of the blocks and the liquids are given in each figure. The volume of the blocks is one-fifth the volume of the liquids.

Rank these situations, from greatest to least, on the basis of the volume of the liquid displaced by the blocks.



Or, all of the volumes of the liquids displaced by the blocks are the same. _____ Please carefully explain your reasoning.

How	sure were y	ou of your	ranking?	(circle one)						
Basic	ally Guess	sed		Sure				Very Sure		
1	2	3	4	5	6	7	8	9	10	
			_							

⁹⁹ D. Maloney, C. Hieggelke

Ranking Task Exercises in Physics