Floating Blocks with Different Loads—Buoyant Force ¹⁰²

Shown below are seven wood blocks which have different masses and different volumes. These blocks are floating in water. On top of these blocks are additional masses which provide a load for each of these blocks. Note: The blocks are not drawn correctly in terms of the depth the wooden blocks are in the water.

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



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

Please carefully explain your reasoning.

How	sure were y	ou of your	ranking?	(circle one))				
Basically Guessed				Sure			Very Sure		
1	2	3	4	5	6	7	8	9	10
¹⁰² C. 1	Hieggelke		_						

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