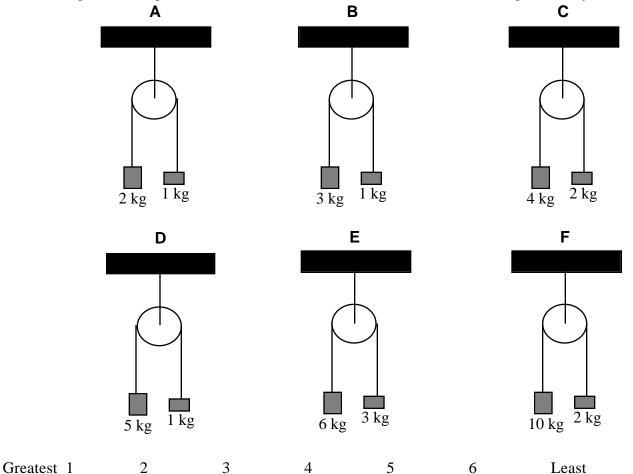
Two Different Blocks and a Pulley—Tension 25

Each figure below shows two blocks hanging from the ends of a strong but massless string that passes over a frictionless pulley. In each figure, the block on the left is more massive than the block on the right, so the block on the left accelerates down, and the block on the right accelerates up. The mass of each block is given in the figures.

Rank the figures from greatest to least on the basis of the tension in the string for the system of blocks.



Or, all of the tensions will be the same. _____

Please carefully explain your reasoning.

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

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

Mechanics

²⁵ S. Loucks, D. Maloney, T. O'Kuma