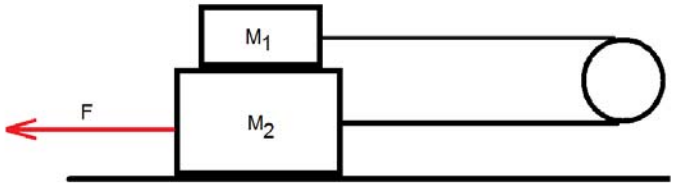
4-6)



Block One has a mass of $M_1 = 14$ kg and Block Two has a mass $M_2 = 42$kg. Block One sits atop Block Two, which in turn is on a table. The blocks are connected by a light string that passes over a massless, frictionless wheel, as shown (the string is otherwise horizontal). The co-efficients of friction between One and Two, and Two and the table, are both 0.3. What force F must be applied to cause the blocks to move with constant velocities?