

1. Blocks A and B, with masses 20.0 kg and 10.0 kg respectively, are located and connected as shown below. The coefficient of kinetic friction between the blocks is 0.50 and the coefficient of kinetic friction between block A and horizontal surface is 0.40. Assume that the pulley's mass is negligible and is frictionless. If a student pulls on block A to the right with a force, the force  $F_0$  in the below sketch, of 250.N, what is the magnitude of the acceleration for each block?

