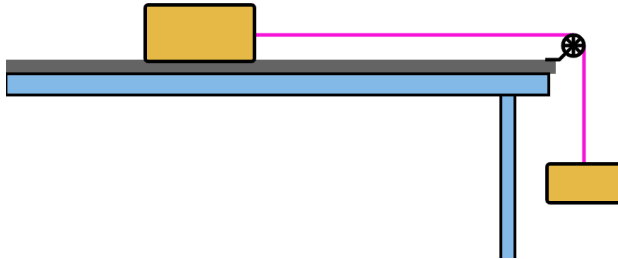# Newton's Law System (With Friction)

Step 1: Below is a picture of two masses that are connected together using a string draped over a pulley. Fill in the values for the mass of each of the objects and the coefficient of friction for the table and block combination.

Step 2: Calculate the net force on the system forward and the acceleration of the system. Show all your steps.

Step 3: Draw all the forces on the block on the table. Based on the acceleration of the system, find the force tension pulling the block to the right. Enter your answers into your program to check that you did everything properly
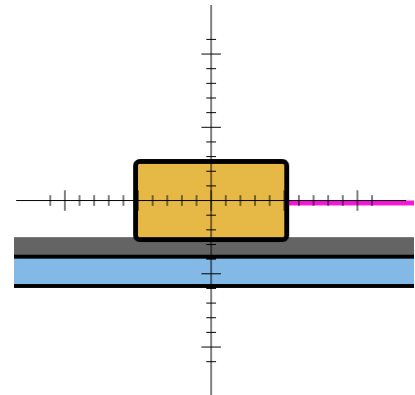
Step 4: Draw all the forces on the hanging mass. Based on the acceleration of the system, find the force tension pulling this mass upward. If all went according to plan, you should get the same force tension you got when you found the tension pulling the block on the table.