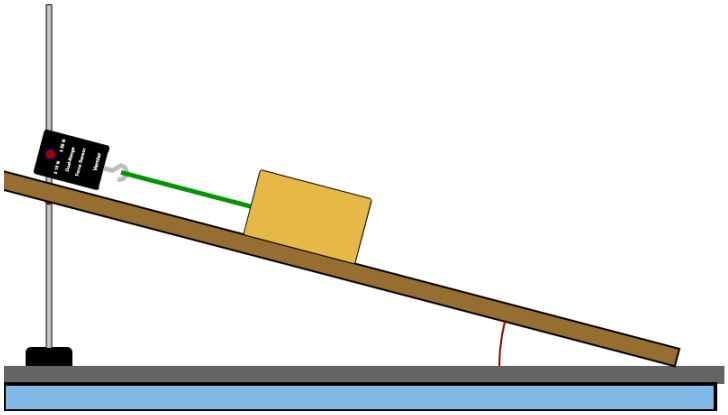
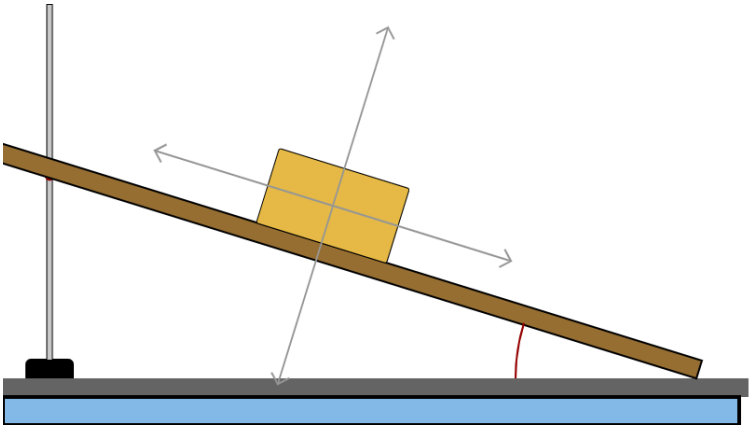
Forces on Incline Simple

Step 1: The block is on an incline with friction. For your problem, fill in the mass, angle and coefficient of friction in the picture below.



Step 2: Calculate the force gravity on the block and then figure out the Fgx and the Fgy when you rotate your axes to match the angle of the incline. Then calculate the Fn, the Ff, and the Ft. Put all these forces into the picture shown below. Show all your work for these calculations. Check your work by trying your answers in the program.



Step 3: Talk about the net force on the block. Do this for both the x-direction and the y-direction separately. Be as detailed as possible.