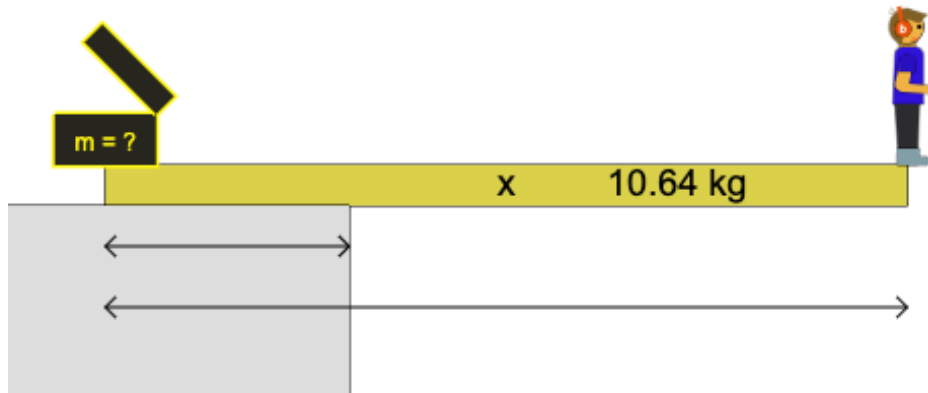


Walk the Plank

Step 1: Fill all your values into the picture below and then show all the forces that are creating torque on the plank. Also clearly show the location of the pivot point



Step 2: Calculate the force of gravity on the person and the torque that they are generating relative to the pivot point

Step 3: Calculate the force of gravity on center of mass of the plank and the torque that is generating relative to the pivot point

Step 4: Setting the torque created by the treasure chest equal to the total clockwise torque, find the minimum mass for the chest so that the plank remains in equilibrium. Enter your answers into the program to make sure you did everything correctly