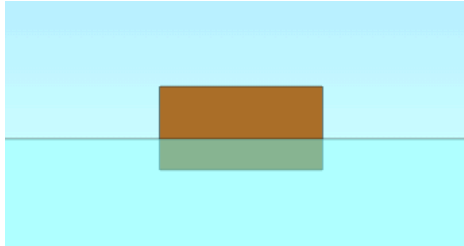


Force Buoyancy

Step 1: Below is a picture of your rectangular raft before having people stand on it. Next the picture, give the values of the variables stated by the program.



Step 2: Calculate the total volume and mass of the raft. Show your work neatly below

Step 3: Use that full volume of the boat to calculate the absolute maximum force buoyancy that is possible in your situation. Show your work below

Step 4: Now calculate the maximum number of people that could stand on your raft. Don't forget to account for the mass of the empty raft. Make sure you truncate your answer no matter how close it might be to the number above it. Enter the answers into your program to make sure you did everything correctly.