

For the geeks amongst you:

If you want to get 'technical' try the following equation in order to work out if you will float or not:

1. Work out the volume of your boat

Let's say it's 2m long, 0.5m wide, 0.5m deep.

So the volume of it is: $2 \times 0.5 \times 0.5 = 0.5$ cubic meters.

Assuming you want half of the boat to stay ABOVE the water (?!), then the submerged volume will be half of the above = **0.25 cubic meters**.

2. Work out the buoyancy of your boat

Multiply the submerged volume of the boat (0.25 cubic meters) x density of water (1000 kg/cubic meter) x force of gravity (9.81 newtons/kg)

So it's: $0.25 \times 1000 \times 9.81 = 2452.5$ Newtons

(Actually, don't worry about the different units of measure, only the numbers matter for this)

3. Now find out if it will float with you aboard :-)

Weigh the boat, weigh yourself, add together.

Lets assume a combined weight of **80kg**.

So we multiply the force of gravity (9.81) by the weight (80)

So $9.81 \times 80 = 784.8$ Newtons

So long as the answer to stage 3 (in this example 784.8) is less than the the answer to stage 2 (in this example 2452.5) your boat will float!!

All you have to do now is insert your own numbers into the above.

Of course there is still the question of stability to work out, but hey...