**Home Experiment #1**

Please determine whether or not you float or sink in certain bodies of water. First estimate the volume of your body by assuming that the head is a sphere, the neck is a cylinder, hands are rectangular solids, arms are cylinders, trunk is a cylinder, legs are cylinders, feet are rectangular solids (as are hands). (SEE VOLUME DATA ATTACHED)

Next determine if you float in:

1. Fresh water ρ =1000 kg/m^3

1. Salt water, like the Elizabeth River or Chesapeake Bay ρ=1035 kg/m^3
2. The Dead Sea ρ=1240 kg/m^3

If you do not float in nominal salt water, fresh water, or in the Dead Sea; then, determine the value of the specific weight of the liquid you float in. (for neutral buoyancy)