Name: _____ Section: _____

Matter: Atoms and Properties – Open Response Question 1

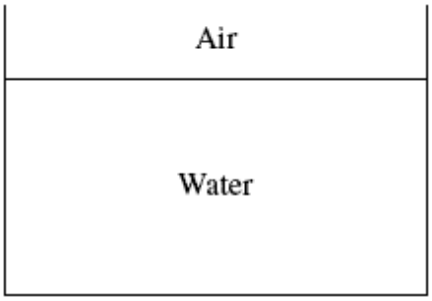
Two different bars of soap are being investigated by a group of students. They measured the mass and volume of each bar and recorded the results in the table below.

Soap	Mass (g)	Volume (cm^3)
A	**110**	**100**
B	**95**	**100**

Density of water = 1.0 g/cm^3

a) Calculate the density of each bar of soap. Show your work.

b) The diagram below represents a container of water. Draw and label the positions that soap bar A and soap bar B would occupy if they were placed in this container.



c) Explain why you drew each bar of soap in the position selected.

Question taken from: http://www.doe.mass.edu/mcas/student/