

**Chapter 13 Liquids**  
**Archimedes' Principle I**

1. Consider a balloon filled with 1 liter of water ( $1000 \text{ cm}^3$ ) in equilibrium in a container of water, as shown in Figure 1.

a. What is the mass of the 1 liter of water?

\_\_\_\_\_

b. What is the weight of the 1 liter of water?

\_\_\_\_\_

c. What is the weight of water displaced by the balloon?

\_\_\_\_\_

d. What is the buoyant force on the balloon?

\_\_\_\_\_

e. Sketch a pair of vectors in Figure 1:  
one for the weight of the balloon and the  
other for the buoyant force that acts on it.  
How do the size and directions of your vectors compare?

\_\_\_\_\_

$1000 \text{ cm}^3$



Figure 1

WATER DOES NOT  
SINK IN WATER!



2. As a thought experiment, pretend we could remove the water from the balloon but still have it remain the same size of 1 liter. Then inside the balloon is a vacuum.

a. What is the mass of the liter of nothing?

\_\_\_\_\_

b. What is the weight of the liter of nothing?

\_\_\_\_\_

c. What is the weight of water displaced by  
the nearly massless 1-liter balloon?

\_\_\_\_\_

d. What is the buoyant force on the  
nearly massless balloon?

\_\_\_\_\_

e. In which direction would the nearly massless balloon be accelerated?

\_\_\_\_\_

ANYTHING THAT DISPLACES  
10 N OF WATER EXPERIENCES  
10 N OF BUOYANT FORCE.



CUZ IF YOU PUSH 10 N OF WATER ASIDE  
THE WATER PUSHES BACK ON YOU WITH 10 N!



# Conceptual Physics Practice Page Answers Liquids

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