

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?

\_\_\_\_\_

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?

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

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

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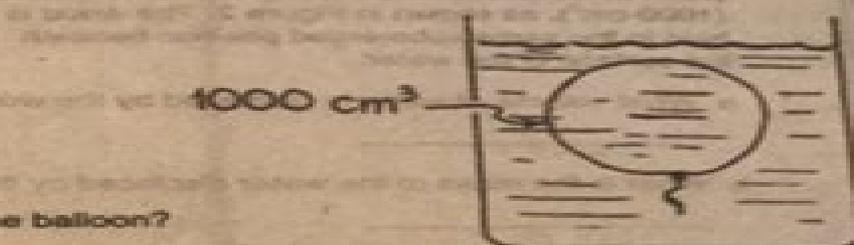
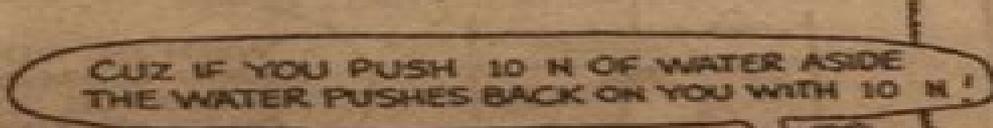
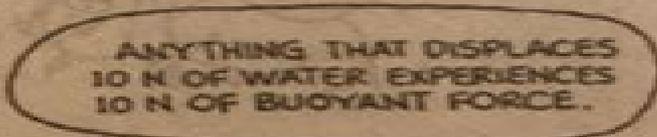


Figure 1



# Conceptual Physics Practice Page Liquids

**Albert A Gayle**



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