

Chapter 13 Liquids
Archimedes' Principle I

1. Consider a balloon filled with 1 liter of water (1000 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 cm^3

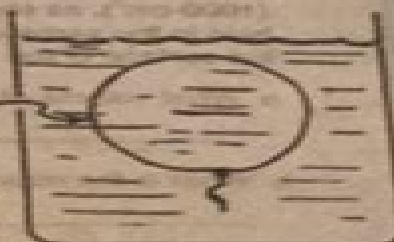


Figure 1

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

LL Leslie



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Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics A Den of Inquiry Tim Erickson, Bryan Cooley, 2007 Mechanics labs for introductory physics that focus on mathematical models and data analysis Includes instructions for using Logger Pro or Fathom software to do data analysis A CD ROM contains instructional video sample data and template files *AP Physics 2 Premium, 2024: 4 Practice Tests + Comprehensive Review + Online Practice* Kenneth Rideout, Jonathan Wolf, 2023-07-04 Barron's AP Physics 2 Premium 2024 includes in depth content review and online practice Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day Sharpen your test taking skills with 4 full length practice tests 2 in the book and 2 more online Strengthen your knowledge with in depth review covering all Units on the AP Physics 2 Exam Reinforce your learning with practice questions at the end of each chapter Deepen your understanding with detailed answer explanations and expert advice provided by publisher

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