

Pg. 82 Read the entire page:

1. When in a swimming pool it is easier to lift yourself because...

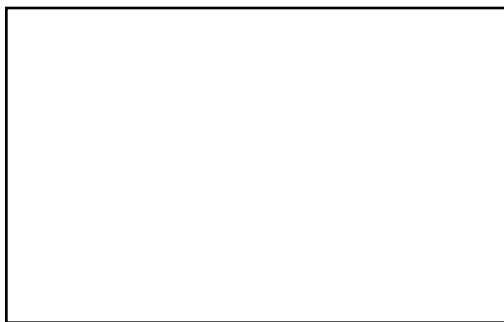
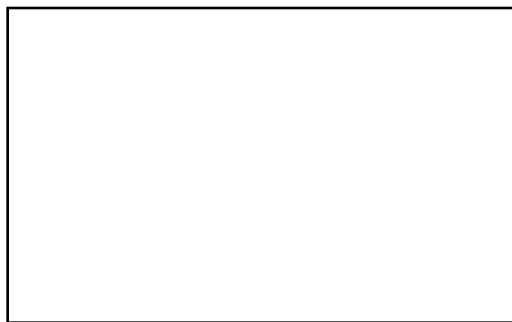
Draw the picture of the boy with vectors _____
 labeled "BUOYANT FORCE" and "WEIGHT".



2. The _____ of the buoyant _____ depends on the _____ of the object under water.

MAKE 2 drawings of the beach ball with vector labeled "buoyant force". Label the pictures:

- MORE VOLUME UNDER WATER**
- MORE BUOYANT FORCE**
- LESS VOLUME UNDER WATER**
- LESS BUOYANT FORCE**



3. When the ball is pushed more under water, the **buoyant force** gets _____ because...

Pg. 84 Read the entire page

4. Give 3 reasons that the wood sinks farther into the water: a. _____

b. _____ c. _____

5-7: Draw the vectors from the **right side of page 84** that matches each of the following diagrams. Label the vectors "BUOYANT FORCE" and "WEIGHT"

For each: **Explain** whether the BUOYANT FORCE is greater or less than the WEIGHT and why.

5. The wood block floating on the surface of the water (in equilibrium)



Explain:

6. The wood block if it was pushed farther under water.



Explain:

7. The wood block if it was lifted up a little, but still in the water.



Explain: