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**Fluids Practice**

1. **What is a fluid?**
2. **Which of the following is NOT a fluid: air, liquid, gas, wood. Explain your answer.**
3. **What is pressure? How do we solve for it?**
4. **Explain how Archimedes’ principle determines the buoyant force on an object in any fluid medium.**
5. **Compare the buoyant force of water and the weight of a piece of wood that floats on water.**
6. **Explain Pascal’s principle.**
7. **What is Bernoulli’s Principle?**
8. **What is viscosity? Which has a higher viscosity: water or honey?**
9. **Calculate the force output by the larger position of a hydraulic lift when a force of 700 N is exerted on a smaller piston. The areas of the two pistons are 20 cm2 and 950 cm2.**
10. **An object weighs 30 N. It displaces a volume of water that weighs 25 N.** 
    1. **What is the buoyant force on the object?**
    2. **Will the object float or sink? Explain.**
11. **Iron has a density of 7.9 g/cm3. Mercury has a density of 13.6 g/cm3. Will iron float or sink in mercury? Explain.**
12. **Why can big ships float in water?**