Pascal's Lav	80	Archimedes	' Pri	inci	ple		QUIZ
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Pascal's Law & Archimedes' Principle - (QUIZ	
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1. Archimede's Principle states that		
2. Pascal's Law states that		
3. If an object floats in water it mean	s that its buoyant force is equal to i	its
4. The pressure in a liquid increases i	f	
and if		
5. The pressure in a liquid does not ch	ange when	
6. How many kilograms can be lifted wit	h an hydraulic lift if the large han the small cylinder, and a force o	f

cylinder has an area ten times 10 N is applied to the small cylinder. Show your work here

- 7. You measure the force of gravity of a block of wood in air and find it to be 1.5 N. When you place the block in water 140 mL of water are displaced and the spring scale reads 1.4 N.
- a. What is the buoyant force on the block of wood? b. What do the results of the experiment tell you about the block of wood? Show your work here