Question:       Question:         Liquid A - 1.4 g/mL; Liquid B82 g/mL;       Find the density of a 5 milliliter, 25 gra         Liquid C - 1.0 g/mL; one liquid you know.       What is it? Also how will they stack? Where         will a 1.6 g/mL object end up?       Guestion:	am
Card 3 Chapter 17 Card 4 Chapter 17	
Question:       Question:         A 30 milliliter rock is 15 grams. Find its density.       Will a 0.59 g/mL piece of wood float i water? How about a 1.86 g/mL piece of c	in clay?
Card 5       Chapter 17       Card 6       Chapter 17         Question:       Question:       Question:       Question:         What is denser liquid silver or solid silver?       A measure of how easily a solid can b pounded into thin sheets.	 )e
Card 7       Chapter 17         Question:       Question:         A measurement of the "compactness" of a substance; ratio of mass to volume.       Measure of a solid's ability to return to original shape after stretching.	• its

Card 2 Chapter 17	Card 1 Chapter 17
Answer: D=m/v; m=25g; v=5mL So D=25/5 = 5 g/mL	Answer: Liquid C is water (1.0 g/mL). Liquid A will be on the bottom. Liquid B will be on the top. The object is the densest, so it will sink to the bottom.
Card 4 Chapter 17	Card 3 Chapter 17
Answer: The wood will float because its density is less than water (1.0 g/mL); the clay is denser than the water and will sink.	Answer: D=m/v; m=15g; v=30mL So D=15/30 = 0.5 g/mL
Card 6 Chapter 17	Card 5 Chapter 17
Answer: malleability	Answer: Solids are more compact, so they are more dense. Water is the only exception (solid water floats, ice).
Card 8 Chapter 17	Card 7 Chapter 17
Answer: elasticity (a rubber band is more elastic than wood)	Answer: density (a rock is more dense than foam)

Card 9	Chapter 17	]	Card	10	Chapter 17	
	Question:				Question:	
A measure of how easily a solid will shatter.				A me	easure of how easily a solid can be scratched.	e
Card 11	Chapter 17	]	Card	12	Chapter 17	
	Question:				Question:	
Upwar	d force of a liquid or gas pushing something immersed in it.	gupon		Any n	naterial that flows; either a gas or liquid.	a
Card 13	Chapter 17	]	Card	14	Chapter 17	
	Question:				Question:	
Measure of a fluid's resistance to flow. (How thick a fluid is.)		Ν	Measure of how hard it is to break something by pulling.			
Card 15	Chapter 17	]	Card	16	Chapter 17	
	Question:				Question:	
	Unit of density.			Why d	lo you seem to weigh less in water	r?

r)						
r)	Answer:			Answer:		
	ess (glass is more brittle than rubber)	brittlend		dness (glass is harder than soap	harc	
	Chapter 17	Card 11		Chapter 17	Card 12	
	Answer:			Answer:		
	buoyancy		)	d (air is a fluid, so is oil or water	fluic	
	Chapter 17	Card 13		Chapter 17	Card 14	
	Answer:			Answer:		
r)	viscosity (honey is more viscous than water)			tensile strength (steel has more tensile strength than a piece of paper).		
		land 15			Card 16	
	Chapter 17			Chapter 17		
	Answer: g/mL OR g/cm <sup>3</sup>		This	Answer: the water is pushing up on you. s the buoyancy force of water.	Because	
	Chapter 17 Answer: buoyancy Chapter 17 Answer: y (honey is more viscous than water) Chapter 17 Answer: y (honey is more viscous than water) Chapter 17 Answer: g/mL OR g/cm <sup>3</sup>	Card 11 Card 13 Viscosit	ength This	Chapter 17 Answer: d (air is a fluid, so is oil or water Chapter 17 Answer: rength (steel has more tensile str than a piece of paper). Chapter 17 Answer: the water is pushing up on you. s the buoyancy force of water.	Card 12 fluic fluic Card 14 Card 14 Card 14 Card 14 Card 14 Card 16 Card 16 Because is	

Card 17 Chapter 17	Card 18 Chapter 17		
Question:	Question:		
A 400 gram boat displaces 300 grams of water. Will it sink or float?	A 125 gram object displaces 150 mL of water. Will it sink or float?		
Card 19 Chapter 17	Card 20 Chapter 17		
Question:	Question:		
A 300 gram boat displaces 400 mL of water. How much cargo can it carry and still float?	What is more dense a steel boat or a block of steel?		
Card 21 Chapter 17	Card 22 Chapter 17		
Question:	Question:		
A hot air balloon has a mass of 6,000 kilograms. How much air will it need to displace to be able to float?	If I put a balloon in the freezer what will happen? What gas law does this demonstrate?		
Card 23 Chapter 17	Card 24 Chapter 17		
If I take air out of a tire what will happen to its pressure? Which gas law does this demonstrate?	Give Charles' Law mathematically.		

Card 18	Chapter 17	]	Card 1	7	Chapter 17	]
Float, be ir	Answer: cause it displaces more than its water (Archimedes Principle).	mass	Sin a 4	c, bec 00 gr	Answer: cause Archimedes Principle state am boat has to displace 400 gran water to float.	es that ns of
Card 20	Chapter 17	]	Card 1	9	Chapter 17	]
The blo density, of the	Answer: ock of steel. The steel is all the s but the boat seems less dense be e shape. It is as if it has "air" in t middle.	ame cause he	1( enc but	0 gra ugh 1 the b of ca	Answer: ams of cargo. 400 mL of water g buoyancy force to support 400 g boat is only 300 grams. So 100 g rgo will not cause the boat to sin	gives rams, grams ik.
Card 22	Chapter 17	]	Card 2	1	Chapter 17	]
Answer: It will shrink. This is Boyle's Law.		Answer: 6,000 kg. Air is a fluid just like water and so it follows Archimedes Principle. For an object to float in air it must displace its weight in air.				
Card 24	Chapter 17	]	Card 2	3	Chapter 17	
OR tempera	Answer: $V_1/T_1 = V_2/T_2$ t initial volume divided by initia ature equals the final volume div by the final temperature.	l vided			Answer: It's pressure will decrease. This is Charle's Law.	1