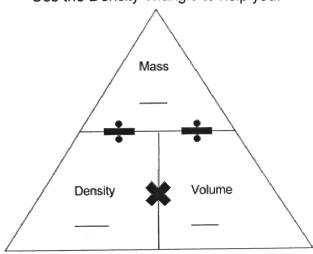
DENSITY TEST REVIEW

Use the Density Triangle to help you!



1. Calculate the density for each of the following objects. Circle the object that is the MOST dense:

	(A	В	_C)
Mass	36 g	24 g	12 g
Volume	6 cm ³	4 cm^3	2 cm^3
	- m:	711	D 12

- D= $\frac{36}{4}$ D= $\frac{12}{4}$ D= $\frac{12}{4}$ All the Same! 2. What is the density of a cube that measures 1 centimeter on each side and has a mass of 2 grams?
 - V=1.1.1 V=1cm3 a. Step 1: Calculate VOLUME (V=S³

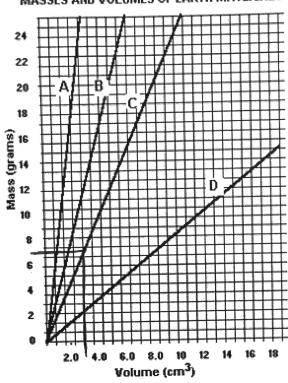
 €)
 - b. Step 2: Calculate DENSITY (D=M/V) $D = \frac{29}{1 \text{ cm}^3}$ $D = \frac{29}{1 \text{ cm}^3}$ c. Will the cube FLOAT or SINK? (circle one)
 - c. Will the cube FLOAT of SINK? (circle one)
- 3. The Titanic sank because it weighed _____ (more or less) than the water it displaced
- 4. Heavy ships like aircraft carriers float because their densities are 165 + Man (greater than or less than 1 g/ml. An example of a possible density for an aircraft carrier could be 0.69/ML (10g/ml or 0.6g/ml)
- 5. Calculate the density for each of the following objects. Circle the 2 objects that have the SAME density:

ensit	y:		
	A	В	$\int c$
/	Mass = 4 g	Mass = 6 g	/ Mass = 8 g
	Volume = 2 cm ³	Volume = 6 cm^3	Volume = 4 cm^3
	D= #	D= #	D=#
	D= #	D= 6	D= 8
	$D = 2g cm^3 /$	D= 1g/cm3	D=29/cm3/

(more or less) dense. Therefore, as the 6. Heat causes air to become _ Earth's surface gets warmer, the density of air will <u>decrease</u> (increase or decrease).

Use the following graph for questions 7 & 8.

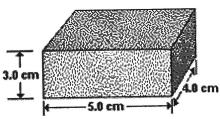
MASSES AND VOLUMES OF EARTH MATERIALS



7. Look at the line for sample C. When it's volume is 3.0 cm3, what is its mass?

How do you know? _ 8. Which material has the greatest density? Steppest line > when volume is 1cm3 density of aglar

9. Calculate the density of the following rectangular prism if it's mass is 120 grams: (Remember: D = M/V)



Step 1: Calculate VOLUME (V = lwh)

Step 2: Calculate DENSITY (D = M/V)

$$D = \frac{120}{40}$$

$$D = 2g/cm^3$$

10. Using the units of milliliters for volume and grams for mass, what would the appropriate units be for density?/(per)/(per)//
11. If you wanted to separate particles of salt and sand, the easiest way to do it would be to pour water into the mixture and then filter it. Particles of salt and sand, the easiest way to do it would be to pour will be used into the water and particles of salt and sand, the easiest way to do it would be to pour will get caught in the filter.
12. Mass is a measure of the <u>Cimoun+</u> (amount or weight) of matter.
13. If you had a mixture of iron shavings, pencil shavings, pieces of rubber, and dust, what too could you use to separate only the IRON shavings?
14. You could determine the volume of a rock by filling a graduated cylinder with, measuring the starting amount of, then dropping the rock into it and measuring how much has been displaced.
15. In the following picture, what is being measured? (volume or

