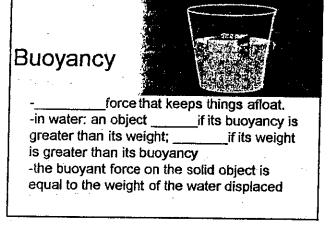
Density is...
the amount of \_\_\_\_in a
given area.

Ex. population density
(Alaska has 1 person/mi², New Jorsey has 1174 person/mi²)

## Por science... density is equal to the mass of a thing divided by its volume. D = \_\_\_\_\_ Mass – amount of \_\_\_\_\_ – measured in \_\_\_\_\_(g) Volume – amount of \_\_\_\_\_ something occupies – measured in \_\_\_\_\_ or \_\_\_\_ Mass = D(v) v = m/d

## 

## Archimedes Principle Archimedes- Greek philosopher Was in his bath tub one morning – he noticed that as his body went in to the water – the water rose out of the way. He realized that the volume of H<sub>2</sub>O that rose was equal to the So... the volume of an object is equal to the volume of \_\_\_\_\_ it displaces 1g H<sub>2</sub>O = 1mL H<sub>2</sub>O = 1 cm<sup>3</sup> H<sub>2</sub>O



## Practice time

- •If an object has a density <1g/cm3, what will it do if placed in water?
- If an object has a density >1g/cm3, what will it do if placed in water?
- If an object has a density =1g/cm3, what will it do if placed in water?