



Density is the amount of mass in a certain volume.

• D = M / V

Coke

The units for density always have two parts:

- a mass part (kg or g)
- a volume part (ml or cm³)



- The density of water is 1.0 g/cm³ or 1.0 g/ml
- Objects with a density LESS than 1 will float on water.
- Objects with a density GREATER than 1 will sink in water.











Let's try a density problem!

 Frank has a paper clip. It has a mass of 9g and a volume of 3cm³. What is its density?

 Frank also has an eraser. It has a mass of 3g, and a volume of 1cm³. What is its density?

Work on these problems.

- Jack has a rock. The rock has a mass of 6g and a volume of 3cm³. What is the density of the rock?
- Jill has a gel pen. The gel pen has a mass of 8g and a volume of 2cm³. What is the density of the pen?

Liquid Layers

- Check out this picture. Which layer has the highest density?
- Which layer has the lowest density?
- Imagine that the liquids have the following densities:
 - 10g/cm³. 3g/cm³.
 - 6g/cm³. 5g/cm³.
- Which number would go with which layer?



Liquid Layers

- If you pour together liquids that don't mix and have different densities, they will form liquid layers.
- The liquid with the highest density will be on the bottom.
- The liquid with the lowest density will be on the top.

