Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**GPS – Quiz 2 – Density study guide**

***Vocabulary***

Define mass.

Define volume.

Define density.

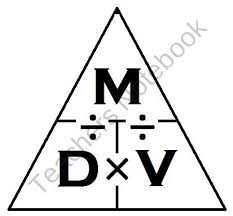
***Water***

|  |  |
| --- | --- |
| ***What is the density of water? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_g/ml*** | |
| *What happens when an object has a density of LESS THAN 1…* | *What happens when an object has a density of MORE THAN 1…* |
|  |  |

***Solving***

Using the formula or the triangle, solve the following problems. REMEMBER YOUR UNITS!!! Use the table for help.

|  |  |
| --- | --- |
| ***Mass*** | Grams (g) |
| ***Volume*** | Milliliter (mL) or  Cubic centimeter (cm3) |
| ***Density*** | g/ml or g/cm3 |

1. What is the density of a cube with a volume of 30 cm3 and a mass of 200 g?
2. What is the density of a sample of oil that has a mass of 92 g and a volume of 100 mL?
3. What is the volume of a cube that has a mass of 40g and a density of 0.93 g/ml?
4. What is the mass of a pebble that has a density of 12 g/cm3 and a volume of 2cm3?
5. For questions 1-4, write whether the object will **sink** or **float** in water.

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_