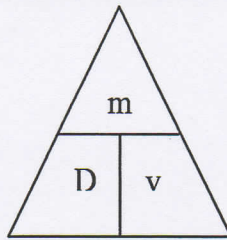


Name: _____ Period: _____

Score: _____ Student ID: _____

Density Word Problems

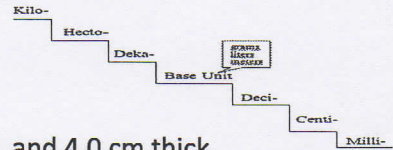
$$\text{Density} = \frac{\text{mass}}{\text{volume}} \text{ or } D = \frac{m}{v}$$



Solve each of the problems below. **Show your work**, including the equation. **Include the units on your answer and box it.**

0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9

1. What is the density of an object with a mass of 120g and a volume of 7ml?
2. What is the volume of 220g of an object with a density of 55 g/cm³?
3. We have an object with a density of 620 g/cm³ and a volume of 75 cm³. What is the mass of this object?
4. What would the mass of #3 be in kilograms?



5. A block of wood has a mass of 180g. It is 10.0 cm long, 6.0 cm wide, and 4.0 cm thick. What is the block of woods density?
6. A 500g piece of metal has a volume of 2.75 cm³ what is its density?
7. Find the volume of 20.0g benzene that has a density of 0.88 g/ml.
8. Find the mass of ether that has a density of 0.71 g/ml and a volume of 130ml.
9. Find the volume of 10g of gasoline that has a density of 0.7 g/ml.
10. A cube measures 3.0 cm on each side and has a mass of 25g. What is the density of the cube?