DFN	SITY	PRO	BLEMS
DLIN.	<i>J</i> III	1110	DEFIAIS

Name ______

(Show your work!!)

Date _____

Densities of some common substances

Substances	Density (g/cm)		
Air	0.0013		
Gasoline	0.7		
Wood (oak)	0.85		
Water (ice)	0.92		
Water (liquid)	1		
Aluminum	2.7		
Steel	7.8		
Silver	10.5		
Lead	11.3		
Gold	19.3		

1. Mass =
$$10.3 g$$

Volume = 14.7 cm³

Density =

2. Mass =
$$50 g$$

Volume = 4.42 cm^3

Density =

3. Mass = 15 g

Volume = 15 cm³

Density =

4. Mass = 15 g

Volume = 16.3 cm^3

Density =

5. Mass = 5 g

Volume = 0.26 cm^3

Density =

6. Mass = 2 g

Volume = 0.26 cm^3

Density =

7. What did questions 3 and 4 have in common? How did they differ? Which question has more mass per volume? Which answer has a greater density?

DENSITY PROBLEMS (continued)

8.	Mass = 252 grams, length = 6 cm, width = 4 cm, height = 1 cm Volume = Density = Substance =
9.	Mass = 255 g, length = 5 cm, width = 3 cm, height = 2 cm Volume = Density =
10.	Mass = 3.375 kg, length = 25 cm, width = 10 cm, height = 5 cm Volume = Density = Substance =
11.	A sheet of aluminum has a volume of 54 cm ³ . What is its mass?
12.	A block of oak wood has a volume of 100 cm ³ . What is it max?
13.	A steel plate measures 20 cm long, 8 cm wide, and 2 cm high. What is the mass of this plate?
14.	A lead ball has a mass of 70 grams. What is its volume?
15.	A container of water has a mass of 98.4 grams. What is its volume?
16.	An ice cube measures 5 cm long, 2 cm wide, and 2 cm high. What is the mass of the ice cube?