Density Problems Practice

Density Problems	D = <u>mass</u> volume	Date
1. What is the density o	f 180 grams of methar	ol whose volume is 600 cm ³ ?
2. What is the density o ml?	f a rock whose mass is	s 28.6 grams and a volume of 15
3. What is the density o volume of 29.4 c		has a mass of 25 grams and a
4. What is the density o	f 450 grams of gas tha	t has a volume of 680 ml?
5. What is the density of	f 244 grams of aluminu	ım that has a volume of 90 ml?
6. What is the density of 1.1cm ³ ?	f an object with a mass	of 1.2 grams and a volume of
7. What is the density of 5.46cm ³ ?	a substance with a m	ass of 61.9grams and a volume of
8. What is the density of	a nickel with a mass o	of 1.02g and a volume of 1.35cm ³ 1
9. What is the density of 3.06cm ³ ?	a substance that has	a mass of 54.2g and a volume of
10. What is the density of 22.1cm ³ ?	of a sample if its mass	is 44.3g and its volume is



Density Calculations Worksheet I

density = <u>mass</u> volume UNITS OF DENSITY solids (g/cm³) liquids (g/mL)

1. Find the unknown quantity:

a) d = 3 g/mL	b) d = ?	c) d = 0.5 g/cm ³
V = 100 mL	V = 950 mL	V = ?
M = ?	M = 95 g	M = 20 g

2. Find the unknown quantity

a) d = 24 g/mL V = 1200 mL	b) d = ? V = 100 mL		c) d = V =	520 mL
M = ?	M = **	1500 g	M = =	0.5 g
i.t				
*				

WORD PROBLEMS

1. A block of aluminum occupies a volume of 15.0 mL and weighs 40.5 g. What is its density?

2. Mercury metal is poured into a graduated cylinder that holds exactly 22.5 mL. The mercury used to fill the cylinder weighs 306.0 g. From this information, calculate the density of mercury.