EXERCISE I			Name		
Chem 100 (Due in lab) 10 points			(I	ast)	(first) tor
			Lab Section #	Lab Instructor	
Α.	METRIC-METRIC CONVERSIONS				
	1.	How many centigrams are in 7,586 micro	grams?	1	
	2.	How many liters are in 1.5 milliliters?		2	
	3.	How many micrometers are in 0.049 decident	meters?	3	
	4.	How many millimeters are in 43.29 centing	neters?	4	
	5.	How many kilograms are in 2,080 grams?	,	5	
	6.	How many deciliters are in 0.289 kiloliters	5?	6	
	7.	How many centigrams are in 12 decigram	ns?	7	
	8.	How many meters are in 596 centimeters	?	8	
		tline to solve the following. (Some English art = qt. mile = mi. foot = ft. yard = yd.)  How many grams are in 0.20 ounces?	abbreviations you mi		oz., pound =
	2.	How many cubic inches are in 328 millilite	ers?	2	
	3.	How many kilograms are in 15.4 pounds?		3	
	4.	How many quarts are in 4.5 liters?		4	
	5.	How many square meters are in 960 squa	are yards?	5	
	6.	How many kilometers are in 28 miles?		6	

7	How	many	feet	are	in	15	meters?
1.	1 10 11	IIIaiiy	ICCL	arc	1111	ıJ	IIICICIS:

7. \_\_\_\_\_

8. How many inches are in 3.81 centimeters?

8. \_\_\_\_\_

C. Complete the following table.

°F	°C	К
	127	
		310
-40		
	15	
		258
80		

D. Solve the following density problems.

**SHOW WORK** 

1. 40.0 mL of a substance has a mass of 30.0 grams. What is the density of the substance?

1. \_\_\_\_\_

2. Substance A has a density of 4.0 g/mL. What volume (in mL) would 12.0 grams of A occupy?

2.

3. Lead has a density of 11.3 g/mL. What is the mass (in grams) of a lead block that is 8 cm long by 5 cm wide by 2 cm high?

3.