Date	Name	
Section		
Instructor		
	Pre-Lab Stud	ly Questions
1. What are the standard units of len	igth, mass, volume, and te	emperature in the metric system?
2. Why is the metric (SI) system call	lad a dasimal contact of	
2. Why is the metric (31) system can	ied a decimal system of m	neasurement?
*	· - :	
A.		
3. What is the purpose of using prefi	ixes in the metric system?	=
4. Fill in the blank lines below with t	the unit name, abbreviation	and aronarty managered
Unit Name	Abbreviation	Property Measured
	L	
centimeter		*
	km	
	mg	
5. Identify each of the following as a	measured number or an e	exact number:
5 books	9.25 L	
0.035 kg	100 cm ir	ı1m
12 beakers	59.067 g	

8.03 mL

1000 mL = 1 L

ş

· ·	Name		
Date	Team		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Section			
Instructor	REP	ORT SHEET	26.
Chemistry ar	id Meas	urement	
A. Measuring Length1. What units are represented by the	e numbers m	arked on the meterstic	k?
What do the small lines marked	on the meter	stick represent?	
Complete the following statement There are milliment There are _	(mm) in	1 meter (m). 1 meter (m). 1 centimeter (cm). 3. Estimated Digit	4. Number of Significant Figures
Width of little fingernail Distance around wrist Length of your shoe 5. Length of line			
Your measurement Other students' values How does your value of the 1		mpare to those of othe	er students?

Q1 What digits in the measurements for the line by other students are the same as yours and which are different?

B. Measuring Volume

Volume of a liquid (include units for every measurement)

	Cylinder 1	Cylinder 2	Cylinder 3
1. Volume (mL)			<

V_0	lume	of	a	solid	by	displacement
		~	00	DUMEN	IU y	aronaccincin

- 2. Initial volume of water
- 3. Volume of water and submerged solid
- 4. Volume of solid (3-2)

C. Measuring Mass

Item		1. Mass	4. Number of Significant Figures
1. Beaker		· e	1
Stopper	<u> </u>		

- Evaporating dish

 2. Unknown #____
- 3. Actual mass of unknown ____

Questions and Problems

Q2 State the number of significant figures in each of the following measurements:

	M 95		
4.5 m		204.52 g	
$0.0004~\mathrm{L}$	E	625.000 mm	
805 lb		34.80 lcm	

Q3 Indicate the estimated digit in each of the following measurements:

1.5 cm	4500 mi
0.0782 in	42.50 g
48.231 g	8.07 lb