Name Section Group
Date

Experimental data sheet 1 : Physical Measurements Lab

A. Mass Measurements

Sample	Filter paper (grams)	Quarter(grams)	50mL beaker(grams)
Before adding sample	0	1.045	1.045
After adding sample	1.045	6.534	31.860
Mass of sample	1.045	5.489	30.815

B. Length Measurements

Lab Manual	Length in cm	Width in cm	Length in mm	Width in mm
	27.75	21.10	277.5mm	211mm
Area	585.525cm2		58,552.5mm2	
	Convert to square inches using 2 methods A & B. Explain 230.521in2 Multiply area by .3937 2,306.968 in2 multiply area by .0934			
Height	91 in		convert in m 2.3114 m	

C. Volume Measurements

Capacity of a large test tube	78ml			
Capacity of a crucible	54ml			
40 mL water in a beaker	Volume	36.5ml	Percentage error	9.58%

D. Temperature Measurements

Boiling water	98^0C	
Iced water	(without salt) 1^0C	(with 20g salt) - 6^0C
Compare and explain The ice water with salt is colder because when adding salt, it dissolves in the water that is present which lowers its freezing point below the ice temperature.		

E. Density of Magnesium Metal

Volume of water without Mg	15.0ml
Volume of water with Mg	15.9ml
Volume of Mg	0.91ml
Mass of the Mg sample	3.075 g
Density of the Mg sample	3.379g
Show Your Calculations here	3.075/.91=3.379g