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- PRINCIPLES OF CHEMISTRY I LAB

Lab Section: CHEM 117L 01

*The letter from the instructor is C above*

## Experiment 3

### Data Section

1	Sample 2	Sample
1.	Mass of crucible and cover 36.1605g	36.1571g
2.	Mass of crucible , cover and sample 38.1655 g	38.189 g
3.	Mass of hydrated compound ( 2-1) 2.1524 g	2.1614 g
4.	Mass of crucible ,cover and anhydrous salt 37.2981g	37.3005g
5.	Mass of anhydrous salt (4-1) 1.1398g	1.1434g
6.	Mass of water lost (3-5) 1.016g	1.018g
7.	Percentage of water (6/3 x 100%) 47.203g	47.099g
8.	Moles of water = (number 6/18 g/mole) 0.0564mol	0.0565mol
9.	Molar mass of anhydrous compound (C) 161g/mol	161g/mol
10.	Moles of anhydrous compound = (5/9) 0.0070950mol	0.0071018mol

11. Waters of Hydration ( n)= (8/10)  
0.00564

0.00565