

Name: _____ Period: _____ Date: _____

CT/CP Chemistry – Unit 6 review

Perform the following calculations. Please show all work to ensure that you receive maximum credit and ***make sure that you use labels, sig figs, and circle your answer!***

1. What is the molar mass of ammonium nitrate?
2. Calculate the number of moles of Na_2CO_3 in a 28.35g sample (you will need the molar mass of sodium carbonate, see the minimal review):
3. Calculate the mass (in g) of 2.47×10^{23} atoms of Lithium:
4. How many **molecules** are in 18.0 grams of **nitrogen** gas?
5. Calculate the percent composition of hydrogen in nitric acid (you will need the molar mass).

6. Find the empirical formula:

Mass percent info: 40.27% C, 6.30% H, and 53.33% O