CHM 110 Practice Set 4
Basic Chemical Calculations

Basic mass/mole calculations: Solve each problem. Show your work, and write your final answer for each in the provided blank.

1) What is the mass in grams of 0.750 moles of metallic aluminum?

_____ g aluminum

2) What is the mass in grams of 3.14 moles of potassium carbonate?

_____ g potassium carbonate

3) Calculate the moles of chromium in a 75.0 gram sample of chromium metal.

_____ mol chromium

4) Calculate the moles of $Ca(NO_3)_2$ in a 250. gram sample of calcium nitrate

_____ mol calcium nitrate

5) Calculate the mass percent of *nitrogen* in calcium nitrate, $Ca(NO_3)_2$.

_____ % N