Name: _____
Date: _____
Period: _____

Worksheet mass-moles problems

1. ___ NaBr + _____ Cl_2 → _____ NaCl + _____ Br_2

Given 50.0 g of Cl_2
   a. How many moles of NaCl do you have?
   b. How many moles of Br_2 can be produced ?

2. _____ $Ca(OH)_2$ + _____ H_3AsO_4 → _____ $Ca_3(AsO_4)_2$ + _____ HOH
Given 35.0 g of H_3AsO_4
   a. How many moles of $Ca_3(AsO_4)_2$ can be produced?
   b. How many moles of $Ca(OH)_2$ are needed to react?

3. _____$Al_2(CO_3)_3$ →_____Al_2O_3 +_____ CO_2
Given 10.0 moles of CO_2
   a. How many grams of Al_2O_3 do you have?
   b. How many grams of $Al_2(CO_3)_3$ do you need to react?

4. _____ $AlBr_3$ + _____ $PbCl_2$ → _____ $PbBr_2$ + _____ $AlCl_3$
Given 150.0 grams of $PbCl_2$
   a. How many moles of $PbBr_2$ do you have?
   b. How many moles of $AlCl_3$ will you produce?

5. _____ Na + _____ HOH → _____ NaOH + _____ H_2
Given 15.5 moles of HOH
   a. How many grams of H_2 do you have?
   b. How many grams of NaOH are you producing?
   c. How many moles of Na do you need to react?