

## MOLE CONVERSION PRACTICE #2

*Show all work. Circle all answers. Show units and watch sig.figs.  
Some problems require you write the proper chemical formulas. Be careful!*

- 1) How many representative particles are in 0.5689 mol of  $\text{H}_2\text{SO}_4$ ?
- 2) How many moles are equal to  $1.41 \times 10^{15}$  f.units of  $\text{MgO}$ ?
- 3) How many atoms of C are contained in 0.60 mol  $\text{C}_6\text{H}_{12}\text{O}_6$ ?
- 4) How many grams are contained in 1.6 mol of  $\text{CaCO}_3$ ?
- 5) How many mol are equal to 500.75 g of  $\text{FeF}_2$ ?
- 6) What is the GFM of sodium phosphide?
- 7) What is the GFM of sodium phosphate?
- 8) What is the GFM of sodium phosphite?
- 9) How many moles are contained in 13 L of  $\text{CO}_2$  gas at STP?
- 10) How many liters of  $\text{N}_2$  gas at STP are equivalent to 0.409 moles of  $\text{N}_2$ ?