How many grams are in 1.72 moles of  $K_2S$ ?

How many molecules are in 1.72 moles of  $K_2S$ ?

How many molecules are in 2.41 grams of KOH?

Care in 2.41 grams of KOH?

Care in 4.13x10<sup>23</sup>

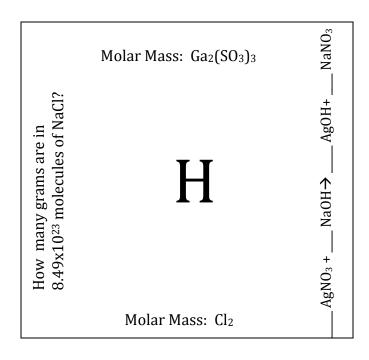
How many grams are in 4.5 moles of sodium fluoride?

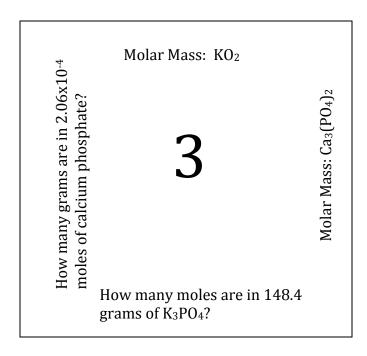
L

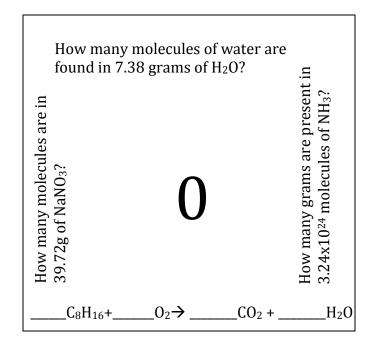
Wolar Mass: PO4

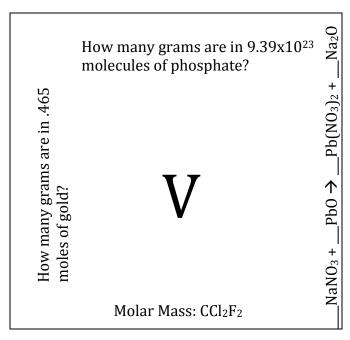
How many molecules of CH4 are present in .41 moles?

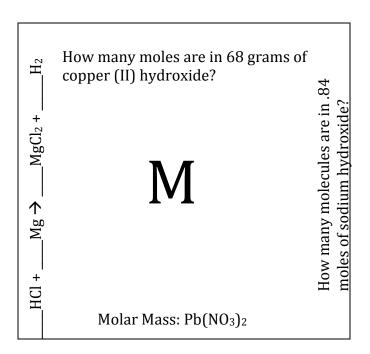
Molar Mass:  $\frac{1}{3}$   $\frac$ 











Instructions for the Puzzle Activity:

The pieces provided will form a 3x3 puzzle.

Have students cut out all puzzle pieces first – don't let them try to decipher the puzzle before doing the work!

Students should work out all problems first, then begin to find matching pieces to complete the puzzle.

If a 'match' doesn't have an exact match, they should do both problems again to find their error (Disclaimer- 'matches' could be within .05-.10 of each other – depending on rounding of molar mass)

For matches of the balancing equations problems, they should match in the sequence of coefficients

EX: 1,2,2,1 matches 1,2,2,1

To make grading easier, the puzzle should spell "I L 0 V 3 C H 3 M" in zig zag pattern by starting in the upper left corner, moving to the bottom left corner, to the middle, up to the top, then to the right side and ending in the bottom right corner.