

Monday, October 9, 2017

Warm Up

- ✓ Find your new seat
- ✓ Get whiteboards & markers, if not already out for you.

Do 1-2-3-4 in order. Use your full whiteboard space for one at a time. Do not continue to #2 until you get a thumbs up for #1, etc.

1:

State the chemical formula of lithium nitride.

ICN 30-31

2:

Calculate the molar mass of lithium nitride. Include units!

ICN 26-27

3:

Show the correct DA set-up and calculation for finding moles of lithium nitride, given 18.35 g of lithium nitride.

ICN 26-27, 28-29

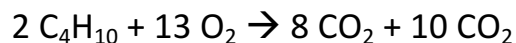
4:

Show the correct DA set-up and calculation for finding kilograms of lithium nitride, given 42.0 moles of lithium nitride.

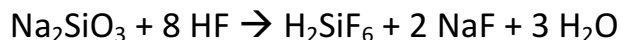
ICN 26-27, 28-29, inside back cover, back of periodic table

Do 5-6-7-8 in order. Use your full whiteboard space for one at a time. Do not continue to #6 until you get a thumbs up for #5, etc.

For 5 & 7, use the following balanced equation:



For 6 & 8, use the following balanced equation:



5:

Show the correct DA set-up and calculation for finding how many moles of CO_2 are produced when 4.00 moles of C_4H_{10} react.

ICN 40-41, especially packet Q #7 & Mole Map "bridge"

6:

Show the correct DA set-up and calculation for finding how many moles of HF are needed to react with 0.300 mol of Na_2SiO_3 .

ICN 40-41, especially packet Q #7 & Mole Map "bridge"

7:

If the O_2 and CO_2 are both gases at STP, show the correct DA set-up and calculation for finding how many liters of CO_2 are produced when 2.85 L of O_2 gas are consumed in the reaction.

ICN 40-41 & Mole Map balloon to balloon path

8:

Show the correct DA set-up and calculation for finding how many grams of Na_2SiO_3 will react with 0.800 g of HF. Also find how many grams of each product (H_2SiF_6 , NaF, and H_2O) are produced.

ICN 40-41 & Mole Map grams to grams path