

Unit 4: Chemical Reactions

Lesson 21: Mole too Much!

Guiding Question: Explain the process for determining the amount of one substance given the amount of another in a chemical reaction.

Do Now:

What is the molar mass of PbCl₂?

Notes

• Consider the reaction:

 $\underline{3} PbCl_2 + \underline{2} Na_3N \rightarrow \underline{Pb_3N_2} + \underline{6} NaCl$

How many moles of lead (II) nitride (Pb_3N_2) can be formed from 15.0g lead (II) chloride $(PbCl_2)$?

Notes

Consider the neaction: (3) POCI2 + 3 NOGN -> OPDIN2 + 6 NOCI How many moles of lead (11) nitride (Posh2) can be formed from 15.0g of lead (11) chloride (PDC12) Molarmoss Poci, qA > mol A > mol B > gB 1(207.2) 7278.1 Sknoi $\frac{15.0g \operatorname{Pbel}_2}{278.1g \operatorname{Pbel}_2} = 0.054 \operatorname{mol} \operatorname{Pbel}_2$ 0.054 met Abela mol AbaNa = [0.018 mol AbaNa 3 mol Abela

Closure

- Answer Guiding Question on page 23.
 - All pages (not 19-22) should be done and stamped .
- Workbooks due at Benchmark #3
- Benchmark #3 on 3/28 & 3/29
- Quiz #2 & #3 Corrections: today and tomorrow after school

• Hang in there....we're almost to Spring Break!