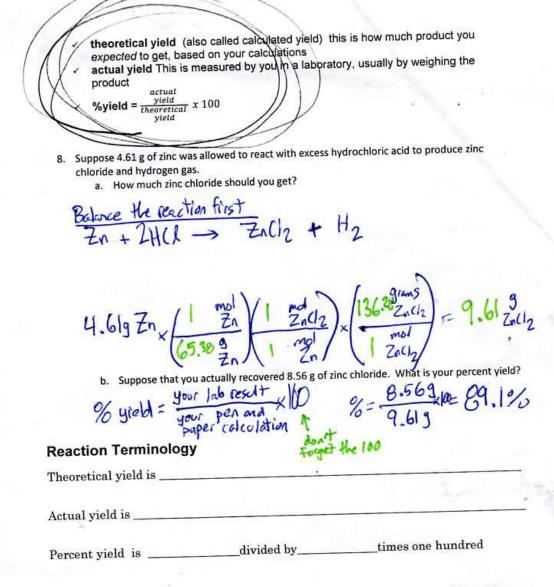


		A PROPERTY PROPERTY	-		
1. Which o	f the following is the	most acidic?	5		
pH =10	b. pH =11	c. pH=12	d. pH =2	e. pH=	:4
2. Which of TPAT [64], [H*]= 1 x 10 [OH·] = 1 x 3. When t contain a. b. c. d. 4. If an a hydror a.	of the following solution to the following solution turn as more So, 17'S more H+ ions than Comore H3O+ ions than more OH- ions than more H+ and OH- ion queous solution turn ion and hydroxi [H3O+] < [OH-]	d. [OH·] = 1 x 10.9 Is red litmus to blue OH- ions OH- ions H ₃ O+ ions In than H ₂ O molecus Is blue litmus red, we	This indicates the	the least Heart Heart Heart the solution	e
b .	$[H_3O+] = [OH-]$				
C.		>			
d.	Neither ion is prese	nt			
		2.			
		3.		DOW	0
FROM	HERE DOWN IS	SORT OF A RI	EVIEW OF UNI	T 8 (MARCH	Đ.
TO MA	RCH 27)			4	No.
0.00	10 10				The same
					18.6
- D-4	his balanced reacti	on, calculate the f	ollowing		
	CaHo +	$2 \text{ H}_2\text{O} \rightarrow \text{Ca}(0)$	$OH)_2 + 2H$	2	
5. For t		- bow many grams (f water react?		
	wanto arams of CaH, rea	CT. NOW IIIdily glains o			
	3x10 ⁻⁵ grams of CaH₂ rea	ict, now many grams o		0	16
	3x10 ⁻⁵ grams of CaH₂ rea	_ mol CaH ₂ 2	nol H ₂ O	grams H ₂ O 2	59×10
# If 3.03	3x10 ⁻⁵ grams of CaH₂ rea	_mol CaH ₂ 2	mol H ₂ O 18 -0	grams H ₂ O =	59 -5 ×10 gran
# If 3.03	gx10 ⁻⁵ grams of CaH ₂ rea	_mol CaH ₂ 2	mol H ₂ O	=======================================	59 ×10 90
3.03×10	g CaH ₂	mol CaH ₂ 2 1	mol H ₂ O 18 -0	mol H ₂ O	×10
3.03×10	g CaH ₂ g CaH ₂ 746 moles of water reac	mol CaH ₂ 2 1	mol H ₂ O 18 -0	mol H ₂ O	×10
3.03×10	g CaH ₂ g CaH ₂ 746 moles of water reac	mol CaH ₂ 2 1	mol H ₂ O 18 -0	mol H ₂ O	×10
3.03×10	g CaH ₂ g CaH ₂ 746 moles of water reac	mol CaH ₂ 2 1	mol H ₂ O 18 .0	mol H ₂ O	359 879



Lab Data Use this to answer the next four questions

A student placed a piece of nickel in silver nitrate solution. Silver metal precipitated and aqueous nickel(II) nitrate was produced. The student collected the following data:

M. Charles	102.05 g
Mass of beaker Mass of beaker with silver	103.13 g
Mass of nickel before	5.00 g
Mass of nickel after	4.69 g

Write a balanced equation for the reaction.

$$N_{3} + 2AgNO_{3} (a_{2}) \longrightarrow 2Ag_{3} + Ni(NO_{3})_{2}$$

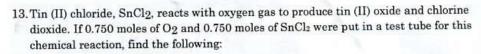
10. From the mass of Ni reacted, determine the theoretical yield of silver

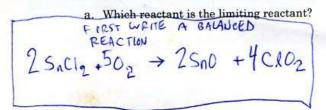
0.319
$$\frac{4}{8}$$
 Reacted \times $\frac{1}{58.71}$ $\frac{1}{8}$ $\frac{$

12. Determine the percent yield of silver.

% yield =
$$\frac{1.083}{1.149} \times 100$$

% yield = $\frac{1.083}{1.149} \times 100$





b. what mass of tin (II) oxide would be produced?

You must use the limiting reactant.

Then convert both. The smaller result tells

750 mol 2 mol 2 mol 2 mol 5 mol 5 mol 2 mol 2

14. Magnesium sulfate, MgSO₄, decomposes when heated to produce magnesium sulfide and oxygen gas. If 6.32 grams of MgSO₄ were heated in a test tube, what volume, in liters, of oxygen gas at STP should be released? (recall that 22.4 liters of ANY gas is

Answer: 2.35 lites 02

15. What mass of CO was used up in the reaction with an excess of oxygen gas if 24.7 g of carbon dioxide is formed? 2 CO + O2 → 2 CO2

Purpose: How do we do titration calculations If you got this data [HCQ] = 0.109 M [NaOH] = ? >HCl volume = 35.0mL Na OH volume = 19.5mL the volume of Substance of Known Concentration.

North + HCl -> HOH + NaCl NaOH = moles NaOH (NaOH) = - 003815 NaOH O30195 L (NaOH) = 0.196M

Answer: the titration of unknown NaOlt showed us that the concentration was [NaOH] = 0.196 mel