Name: Sayled Faisal Date: 9/19/24 Period: 2 #: 346 MIXED MOLE CONVERSIONS
SHOW ALL WORK!!! (conversion factors, units, sig figs, molar mass work, etc)
was a land a second of the sec
Remember:
Remember: $1 \text{ mol} = 6.02 \times 10^{23} \text{ particles (atoms, molecules, or formula units)}$ 1 mol = molar mass in grams
1 mol = 22.4 L
1) How many moles are in 297 g of NH ₃ ?
,
2979 NH3 x 1 mol NH3 = 17.4 mol NH3
17.03 NH3
A A A A A A A A A A A A A A A A A A A
2) How many moles are in 95 g of MgCO ₃ ?
959 MgCO3 x 1 mol MgCO3 = 1.1 mol MgCO3
94.31 9M9C03
0 0
3) What is the mass of 1.9 x 10 ²⁶ formula units K ₂ CO ₃ ?
1.9x1026 FU K2CO3 y -1 mol K2CO3 x 139.219 K2C
1/ 02 x 1023 F1 - 1 mo K2C
1) 11 × 1040 × . (O)
4.4×1049 K2CO3
4) How many grams are in 21.7 mol H ₂ O?
21.7-mol HzO-x 18.016 9 HzO = 3919 HzO
1 mal 420
6) All (1) Il (70 m 109 I of on II) when makes does it contain?
5) A hot air balloon contains 6.78 x 10 ⁹ L of gas. How many moles does it contain?
6.79×1091 x mol = 3.03×108mol
22.4
21200 E

6) How many moles are equal to 8.9×10^{24} formula units of CO_2 ? $9.9 \times |OUFUCO_2 - x | Mo|CO_2$ $6.02 \times |O^{23}FUCO_2$ $|SMo|CO_2$

Name: _	5	15/6/16	Date:	Period: #:	
		are in 2.03×10^{26} atoms of Z		,	
2.0	03×102	Latoms Zr	EVIMOIZI	23 a tomo zn	=
77	7 .		6.07.X10	23 a toma zn	
00	7mo	1 En	0.00	00.01.0 41	
8) How	many molecu	les are in 3.569 mol of H ₂ O	2?		
3.	569 ma	1 H2Oz x 6.C	02x 023 FUL	1202_	
2.1	49×102	4 FU HzOz	molifizuz	2.41-13-41-13-c	
9) How	many atoms a	re in 5.2 mol of Ag?			
5.	zmoli	Ag x 6.02 x10	23 atomo A	7-=	
3.	X 024	atoms Ag	OI Ag	20 gH g = 1	
10) How	many particle	s are in 36 g of $\text{Li}_2 \text{SO}_4$?	(1-1-1)		
36	9 Liz	504 x 1 mol Liz504 109.91	Li2504 x	6.02×10230 FL	<u>ا</u>
1.11	72	100	Short try	1 mal Lizsou	
2.0	x10~8	L12504 109 91	1-9 Liz 504	11	
	FÜ	1	2003	J.N. X 10° g K	
11) Wha	t size containe	r do you need to hold 21.4 m	mol Cl ₂ gas at STP?		
21	4-mol	612 x 22.4	LC12 = 47	91 012	
	J.	me	1 C/2	1 6 010	
12) Wha	t is the mass of	$f 3.51 \times 10^{24}$ formula units of	of CaF ₂ ?		
3.9	51×102	FU Catr	x-mol Cat	72 × 78.09 9 Co	15
499	39 Ca	FZ	6:02×100	HU + md Call	T

3.48108126.32.36.32.40.10.9.8. 19 11 3/ 11/2.