	Find the mass in grams of each of the following:	
	0.720 mol of carbon monoxide: 720 mol 289 = 20.2960	
٨	1.12 mol of potassium carbonate $K_2(O_3) = 138.2$ 1.12 mol 138.2 mol 138.2 mol 138.2 mol 138.2 m	
	$\begin{array}{c c} 2.06 \text{ mol of sodium hydroxide} \\ N_0OH = 40 \end{array} \qquad \begin{array}{c} 2.06 \text{ mol} 409 \\ \text{Ims} = 82.49 \end{array}$	
犬	1.56 mol of nitrogen gas* $1.56 \text{ mol} 280 = 43.79$	
	Find the # of moles in each of the following:	
	11.0 grams of Ethane (2Hg = 28 yml) 11.0a mol = 38 fmol GH6	
	15.4 grams of carbon tetrachloride CC14 + 549 18.49 1804 - 0.08 3 mal CC14	
	333 grams of Tin II Fluoride 3339 Inol Snfz = 1567 356.7g = 2.13 mol Snfz	
X	67.8 grams of chlorine gas* $C(z = 7) \qquad 67.89 \mid lmol = 955 \text{ mol } C(z)$	207
	Page 300 (page 157 old book)	303
	What are the conditions (temperature and pressure) at STP?	map
	What is Molar Volume (liters/mole) at STP? 27.45mol of a gas!	1,4
	What volume would 3.20 x 10 ²⁶ moles of CO occupy at STP?	
//	3.20×1026 1 22.46 = 7.17×1027 6 (149006	
	What volume would 0.960 moles of CH ₄ occupy at STP? O. 960mol 72.42 = 21.52	
	What volume would 3.70 moles of *Nitrogen gas occupy at STP?	1 122
1	1 mol 3.20 mol 0 / mi	, 1 724
U	How many moles of sulfur trioxide are present if the volume is 33.6 L at STP?	muldalla Ind
	33.66 SO3 mul = 1.50mol SO.	~~~~
	7211	

16 (unp -030) Example (3Hz C-081.8% H 1018%

	Copy table 10.1 on page 290 (Table 6.1 Old Book page 145)							
	Substance	Rea suct.	form la	Respect	- in 1.00 mo)			
		Atam	N	007	-1123			
		Merila	1/	6.0 2	1			
		Malanta	1120					
		Tolerote	7527		/			
		E. J. 11.	95					
		Malecule	Cat2	· · · · · · · · · · · · · · · · · · ·	<i></i>			
		7 100012	C12 482	-				
	How many moles are in 2.80×10^{25} atoms of silicon?							
	How many atoms are i	How many atoms are in 0.360 mol of Silver?						
	now many atoms are i	11 0.360 11101 01 311VET? 23						
	How many molecules a	How many molecules are in 2.14 moles of Carbon Monoxide?						
	1	1701/24	1-1-1-)				
	How many molecules a	are contained in 4.65 x 10^{24} u	molecules of Nitrog	gen Dioxide?				
	·	7.72moledille	us NOz					
	How many oxygen atoms are in a representative particle of each of the following?							
	name	formula		# of oxygen atoms				
	Ammonium Nitrate	NHUNI	9 -3	3				
	Lead II Sulfate	Ph Say	3	4				
	Diphosphorus Pentoxio	le P2 0-		5				
		17/50		A A				
	Potassium Chromate	15 cru	•	\mathcal{A}				
	Potassium Chromate	LBUL Cago	<u>'</u>	(
-	* Calcium Ehlo	Brunte Ca Gos)~	6				
).	* Calcium Ehlo	a Mass (g/m) of a compound	is determined by a	adding up the mass of e	everything			
)	* Calcium 646 Molar Mass or Formula	a Mass (g/m) of a compound ermine the Molar Mass of the		adding up the mass of e	everything			
).	Molar Mass or Formula in the compound. Dete	ermine the Molar Mass of the Formula		Molar Mass (grams/n	nole)			
)	Molar Mass or Formula in the compound. Dete	Formula C_2H_6			nole)			
)	Molar Mass or Formula in the compound. Dete	Formula C ₂ H ₆		Molar Mass (grams/n	nole)			
	Molar Mass or Formula in the compound. Dete	Formula C_2H_6		Molar Mass (grams/n	nole)			
	Molar Mass or Formula in the compound. Dete	Formula C ₂ H ₆ Pb(No ₃)		Molar Mass (grams/n	nole)			
).	Molar Mass or Formula in the compound. Dete	Formula C ₂ H ₆ Pb(No ₃)		Molar Mass (grams/n	nole)			
5).	Molar Mass or Formula in the compound. Dete Name Ethane Phosphorus Trichloride Lead II Nitrate Dinitrogen Pentoxide Ammonium Carbonate Strontium Cyanide	Formula C ₂ H ₆ Pb(No ₃)		Molar Mass (grams/n	nole)			
	Molar Mass or Formula in the compound. Dete Name Ethane Phosphorus Trichloride Lead II Nitrate Dinitrogen Pentoxide Ammonium Carbonate Strontium Cyanide Sodium Bicarbonate	Formula C ₂ H ₆ Pb(No ₃)		Molar Mass (grams/n	nole)			
5).	Molar Mass or Formula in the compound. Dete Name Ethane Phosphorus Trichloride Lead II Nitrate Dinitrogen Pentoxide Ammonium Carbonate Strontium Cyanide	Formula C ₂ H ₆ Pb(No ₃)		Molar Mass (grams/n	nole)			
5)	Molar Mass or Formula in the compound. Dete Name Ethane Phosphorus Trichloride Lead II Nitrate Dinitrogen Pentoxide Ammonium Carbonate Strontium Cyanide Sodium Bicarbonate	Formula C ₂ H ₆ Pb(No ₃)		Molar Mass (grams/n	nole)			
(Molar Mass or Formula in the compound. Dete Name Ethane Phosphorus Trichloride Lead II Nitrate Dinitrogen Pentoxide Ammonium Carbonate Strontium Cyanide Sodium Bicarbonate Dinitrogen Pentoxide	Formula C ₂ H ₆ Pb(No ₃) Na (Hoo		Molar Mass (grams/n	nole)			
5).	Molar Mass or Formula in the compound. Dete Name Ethane Phosphorus Trichloride Lead II Nitrate Dinitrogen Pentoxide Ammonium Carbonate Strontium Cyanide Sodium Bicarbonate	Formula C ₂ H ₆ Pb(No ₃) Na (Hoo		Molar Mass (grams/n	nole)			
(Molar Mass or Formula in the compound. Dete Name Ethane Phosphorus Trichloride Lead II Nitrate Dinitrogen Pentoxide Ammonium Carbonate Strontium Cyanide Sodium Bicarbonate Dinitrogen Pentoxide	Formula C ₂ H ₆ Pb(No ₃) Na (Hoo		Molar Mass (grams/n	nole)			

Calculating Grams & Moles & Liters

Use the chart to help you answer the questions below it.

#	Formula	Name	Formula mass/	Show your work & circle your
1	CaO	Calcium Oxide	molar mass 56.1 g/mol	14.5g mul = 258mol (a)
2	Ba (OH)	Barium hydroxide	171.3g/mol	1.89mol/171.5g = 324g
3	MgClz	Magnesium Chloride	95.3g/mol	1.34g Imol = .014/md
4	CCl ₄	Carbon Tetra- Chbride	154g/mol	4.67g mil = .0303ma)
5	SO _{2 (g)}	Sulfur dioxide	64./g/mol	0.34mol 22.42 = 7.66soz
6	Agz O	Silver Oxide	231.8g/mol	1.26mel/231.8g = 29Zy
7	(ba(103)2	Barium Nitrate	261. \$g/mu	1.345g/ mol = .065/47ms/
8	NZ(g)	Nitrogen gas	28.0g/mo)	2.452 1mol = .109mol Nz

- 1. How many moles are in 14.5 grams of calcium oxide?
- 2. How many grams are in 1.89 moles of barium hydroxide?
- 3. How many moles are in 1.34 grams of magnesium chloride?
- 4. How many moles are in 4.67 g of CCl₄?
- 5. How many liters are in 0.34 moles of SO₂ gas? (@ STP)
- 6. How many grams are in 1.26 moles of silver oxide?
- 7. How many formula units are in 1.345 grams of barium nitrate?
- 8. How many mole are in 2.45 liters of nitrogen gas? (O-STP)