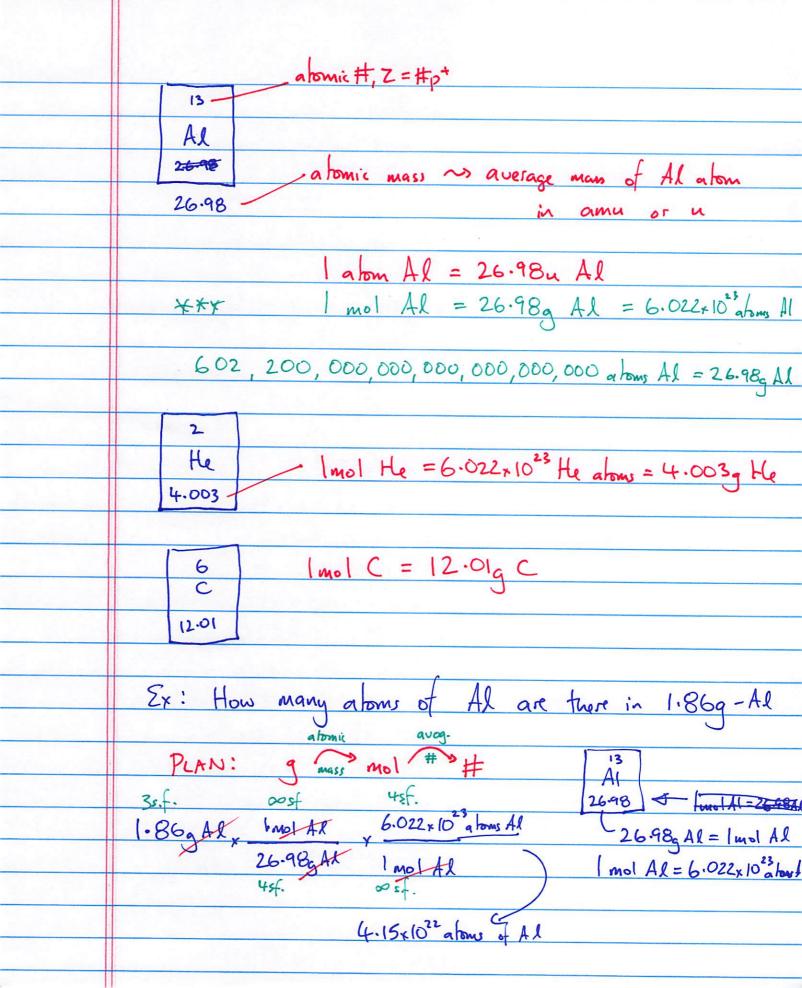
9/14/2018	
111/0-10	2 = pair 20 = score
	12 = dozen 144 = gross
	13 = baker's dozen 10,000 = myriad
	6.022 x 10 <sup>23</sup> = mole (mol) (a chemist's dozon)
	Avogadro's #
	mol pennies
	4 light years.
1	Why this #?
	6.022×10 <sup>23</sup> = #atoms in 12-g of 12°C.
	- can use mol as a conversion-factor.
	ex:   mol Cu = 6.022 x 1023 atoms Cu
	or- I moi Cu - 6.0 LLXIV atoms Cu
	a: 2.45 mol Cu -> ? atoms
	2.45 mol (u x 6.022 x 10 <sup>23</sup> atoms (u = 1.48 x 10 <sup>24</sup> atoms (
	Imoltu



a: What mass would 8-70x1020 atoms of An weigh?
Plan: #atom > mol > g 79 Au
196.97 D   mol Au = 6.022×1023 atoms Au
2) 196.97g Au = Imol Au
8.70×10 <sup>20</sup> atoms 1 mol Au 196.973 Au = 0.285g Au 6.022×10 <sup>23</sup> atoms 1 mol Au
6.022×1023 atoms 1 mol An

Chapter 3: Molecules, Compounds, + Chemiral Equation
The state of the s
Recall: Compounds ~> fixed ratio of elements.
~ formed from whole # combinations
of atoms of 2 or more elements
BONDED together.
· · · · · · · · · · · · · · · · · · ·
Two kinds of bonds:
(1) Ionic bond (Metal + Non-metal)
e-transfer from
ex: Na -> Na + e - Na to Ci
ex: Na -> Na + e - Na to C1  e + Cl -> Cl -
ions
11 d
Nat mi Ce
lionic bond Not at Nat
1 a Nat a
SOLID:
The Company of the state of the
ionic de Nat Cot
Compound Nat Ct Nat
(2) Covalent bond (Non-metal + non-metal)
The state of the s
(+) e (+) (+) (Covalent-bond
nucleus nucleus H-Cl molecule
shared e's

П