Molarity, molarity + mole fraction
∂ . 1.50M = $\frac{\text{H mol}}{0.750L}$ = 1.125 part x 74.559/ = 83.99
4. 1.90M_#mol = 5.70 mol x 40.01g/ = 228g
6. 3.00M = #mol = 6.00 part x 162.29/part = [9739]
8, 2,50M_ #mol _ 26,25 partx 56,119/mol = [1470g]
10. m=? 0.125g - 0.00240mol 81.3g = 0.0813 kg 52.00 9/mol 10009/kg
0.00240mol 0.0295m
Small mass → mo) lq mass → kg 12. m=? [18.79] = 0.332 mol 117gx [kg] = 0.117kg 201.29 [mol] Q.332 mol] = [2.84m] O.117kg
14. m=? 16.69 = 0.161mol 13309 x 1kg = 1.33kg
$m = \frac{m}{m} $ (Smaller mass $\rightarrow mol$) 0.161 mol 0.121m $kg $ (lg mass $\rightarrow kg$) 1.33 kg
16. m=? 15.2g 0.137mol 345gx 1kg = 0.345 kg 110.919/mol 1000g 0.131mol = 0.397m

m	che 2 alla out mous regular Cromento	- (Individual moles)
	18. 45.69 CD - 1.63mol CD	1.63mo1CD=
	899g CO2 - 20,4mol CO2 44.01 9mol	[0,0400]
	20. Ulo. 89 02 - 2.09 mol 02 32.00 9/mol 44.10 Na = 1.57 mol Na	3.09 mol Do _ (0.14702) 14.24 mol
	21.5gHa 10,40 md Ha 2,02 Ymol	
	Stop 2 add all moles together (total moles) Stop 3 individual moles together (total moles) Stop 45. Leg CD 1. Le3 mol CD 2. Le3 mol CD 2. As .03 prol Stop 20	
	24. 70.250 = 3.90 mol HaD 18.0292mol = 0.728mol Ha	3.90 met H20 - 0.802 H20 4. Str3med

Name:		Block: Date:	
Chemistry Solutio	ns/ Equilibrium Review		
Fill in the blank (
 A homoger 	A homogenous mixture of two or more substances is known as a(n) Solution		
2. A solution	A solution in which the dissolved and undissolved solutes are coming in and out of solution at the same		
rate is said	to be in Equilibrium		
5. The solubi	lity of a solute is defined as the	aximum	amount of solute that can be
dissolved i	solved in a given amount of the solvent at a specific temperature.		
4. The rapid e	The rapid escape of gas from a liquid in which it is dissolved is called effer we scence		
SUPERSO	A solution where more than the maximum normal amount of solute has been dissolved is called Supersaturated.		
6. A solution	in which there is very little solute con	npared to the amount	of solvent is called
A solution	in which there is a large amount of so	olute compared to the	amount of solvent is called
Concen	rated.		
8. A mixture	whose visible parts will fall out of sol	lution if not constantl	y mixed is called a(n)
9 A solution	un/colloid	0.0	
9. A solution	that uses water as its solvent is called	aqueous	
10. A solution	that is made of two metals is called a	(n) alloy	-
Matahing (2nts	-1.\	Q	
Matching (2pts ea		4	
	sed to describe two liquids that	a. alamgam	
WWW.Normanian	e in each other.	b. immiscible	
	in which alcohol is the solvent.	c. tincture	
13. Snows now	much solute will dissolve in a	 d. solubility rate 	
	int of solvent over a range of	e. solubility curve	e
temperature		f. miscible	
	e of how fast a substance dissolves.		
5 15. Liquids tha	t do not dissolve in each other.		
M. W. L. L. C. (2)			
Multiple choice (2			
	is have the following properties excer	ot that the:	
	olved particles are very small.	v	
	icles in solution are evenly distributed	d.	
c. solu	ition particles do not separate.		
(d.) all s	solutions are liquid.		
17 Solution co	ncentration that is expressed as moles	of solute per kilogra	me of column in L
a. molarity.	c. mole fraction.	of solute per knogra	ins of solvent is known as:
(b.)molality.			
O. molanty.	d. minimolality.		
18 All of the fo	ollowing will dissolve best in warm to	hot water avanet:	
a. NaCl (s)	c.NO ₂ (g)	not water except.	authority of ball is
b. C ₆ H ₁₂ O ₆		Chases must be	chilled to dissolve
b. C61112O6	(s) d. NH4OH (I)	0	
19. All of the fo	ollowing affect the rate of dissolving e	except:	
a. stirring	c. temperature	H1990.*199	
(b) molarity	d. surface area		
20. Water is con	nsidered the universal solvent for pola	ur substances, which v	vould be a "universal" colvent for
non-polar si	abstances?		Toda oca universal solvent for
a. Ami		d. Sodium Chlorid	le
	7.		
	hydrocarbon		