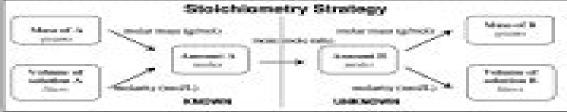
Solution Stoichiometry Chem Worksheet 15-6

Name

The molarity of a solution is a ratio of the moles of solute per liters of solution. The units for molarity are written as moUL or M. This measurement is used to perform stolahiometric calculations. The strategy used for solving these solution stolahiometry problems is to set up the problem so that the units cascel.

$\frac{\text{LinePLL injurities}}{\text{modurity}} = \frac{\text{mod solute}}{\text{L. solution}} = 0.L = 0000 \text{ sol.}$

When the volume of a solution is multiplied by the molarity of a solution the resulting units are moles. A balanced equation allows us to convert from moles of a known substance to moles of an unknown. Finally, the moles of an unknown substance can be converted into grams, liters of solution, molarity, or other units.



Example

Here many grams of solid calcium hydroxide, Cartiffly, are required to must wish 350 cd., of 0.49 M 1937.

 $_BCI + _Ca(OHO_i \rightarrow _CaCi_i + _H_iO$

-balance the equation: $\pm HG + \pm CuO(0)_1 \rightarrow \pm CuG_1 + \pm H_1O$

construct call, to Lo 200400, Sect 13, 400, 400, 1403

All in factors and soften S.A.O.C. S.A.

Answer the following questions. Show all work and report answers with units.

- How many grams of aluminum are expaired to meet with 35 rall, of 2.0 M hydrocalderic sold, HCl7 _ HCl + _ Al → _ AlCl₃ + _ R₄
- How many grams of sediam-can be reacted with 750 mL of a 6.0 M solution of sulfuric acid, H₂SO₄? No + __HoSO₄ -- __Na₂SO₄ + __H₄
- If 45 ral. of a 1.5 M AgNO₃ is added to KCI how many grams of AgCI can be formed?
 __AgNO₃ + __KCI → __AgCI + __KOO₃.
- How many liters of a 0.75 M suligition of Ca(NO₃)₅ will be required to mean with 148 g of Na₂CO₃?
 — Na₂CO₃ -- _ CaCO₃ + _ Na₂NO₃

- Show many liters of a 3.6 M H₂PO₆ solution are required to react with 4.5 g of zinc? H₂PO₆ + __ Zn ~_ Zn₂PO₇)₅ + __ H₆
- Blow many radificants of 0.10 M Pb(NO₁); and required to react with 75 mL of 0.20 M NaTY __Pb(NO₁); + __Nat → __Pb₁; + __NaNo₁
- How many grams of solid BuSO, will form when Na₂SO₂ reacts with 25 mL of 0.50 M Bu(NO₂)₁? __BuSO₂ + __Na₂SO₂ → __BuSO₂ + __NaNO₂
- If \$25 mL of 0.80 M HCl solution is neutralized with \$15 mL of Sr(OH), solution what is the malarity of the Sr(OH),?

 $_1001 + _5e(OHS)_1 \rightarrow _5eO_1 + _16O$

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Yicheng Fang

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the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure a collection of finite elements whose response is defined by the stiffness and mass o

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in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

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the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus problem description the example is a frame consisting of two columns connected by a beam figure 1 16 1 1 the columns and the beam are each modeled with 10 elements of type b21 once a substructure has been