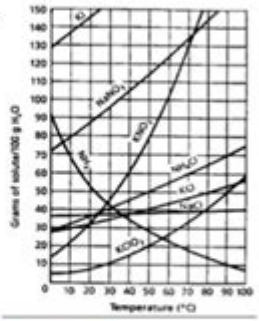
Name _____
Chemistry Period ___
Date _____

SOLUTIONS WORKSHEET

A. Solubility curves – refer to the graph to answer the following questions.



1. What is the solubility of NH_4Cl at 70°C? **60 g**

2. Calculate the mass of NH_4Cl that would dissolve in 200 g of water at 90°C.

   70 g @ 100g water → **140 g**

3. At 0°C, 50.0 g NH_4Cl are added to 100 g water. To what temperature does the solution have to be raised in order to achieve a saturated solution of $NH_4Cl_{(aq)}$?

   50°C

4. Is NH_3 a (s), (l), or (g)? Explain.

   GAS – it's solubility *decreases* with increase in temperature. Opposite for solids

5. Determine how much water is required to dissolve 35.0 g NH_4Cl at 70°C in order to make a saturated solution. Show your work.

   $\frac{60}{100} = \frac{35}{x}$ **x = 58.3 g H_2O**

6. If a saturated solution of NH_3 at 15°C is warmed to 40°C, how much ammonia will "fall out" of the solution?

   @ 15°C – 60 g soluble @ 40°C – 35 g soluble **25 g will fall out**

B. MOLARITY

1. What is molarity a measure of? What is the formula for molarity? What are the units of molarity?

   Concentration. M = n / V mol/L or M

2. Calculate the molarity of a 1.5 L solution that has 0.45 mol solute dissolved.

   0.30 - M

3. Calculate the grams of sodium sulfate that are required to prepare 1.50 L of 0.25 M solution.

   53.3 g Na_2SO_4

4. Calculate the volume of solution required to make 0.024 M solution using 15.0 g of calcium chloride.

   V = 5.6 L

5. Describe in detail the steps you would take to prepare 1.50 L of 0.5 M solution of sodium chloride.

   n = 0.75 mol → 43.5 g NaCl
   1) measure out 43.5 g NaCl
   2) put NaCl into graduated cylinder
   3) add enough water to make final volume 1.50 L

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Solutions Worksheet 1 Molarity Complete The Table Answers

Solutions Worksheet 1 Molarity Complete

Solutions Worksheet 1 Molarity Complete
Calculate molarity if 25.0 mL of 1.75 M HCl diluted to 65.0 mL. Calculate molarity by dissolving 25.0g NaOH in 325 mL of solution. Calculate grams of solute needed to prepare 225 mL of 0.400 M KBr solution. Calculate mL of 0.650M KNO 3 needed to contain 25.0g KNO 3. Which are water soluble? Zn(NO 3) 2 AlCl 3 AgBr FePO 4 CuAc 2

Molarity 1 (Worksheet) - Chemistry LibreTexts
Solutions Worksheet #1: Molarity 1) Complete the table: Solute formula Molar Mass of solute (g/mole) Mass of Solute (g) Moles of solute (mole) Molarity of solution (M) Volume of solution (L) a NaCl 1.0 1.0 b NaOH 117.0 4.0 c MgCl2 190.3 2.0 d NaCl 292.5 0 .5 e KBr 238.0 2.0 f NaCl 1.5 1.0 g NaCl 1.0 0.25 h FeCl3 0.1 0.50 i HCl 438.0 2.0 j NH3 39.1 3.0 2) Calculate the number of moles and the ...

Solutions Worksheet #1: Molarity Molar Mass of Mass of ...
Molarity Problems Worksheet M=nV n= # moles V must be in liters (change if necessary) 1. What is the molarity of a 0.30 liter solution containing 0.50 moles of NaCl? 2. Calculate the molarity of 0.289 moles of FeCl3 dissolved in 120 ml of solution? 3. If a 0.075 liter solution c...

Molarity and Dilutions Worksheet - Google Docs
MOLARITY WORKSHEET #1 For each of the following problems, use proper units and show ALL work: 1. If 10.7 grams of NH 4Cl is dissolved in enough water to make 800 mL of solution, what will be its molarity? (Answer: 0.25 mol/L). 2. Calculate the molarity of a solution prepared by dissolving 6.80 grams of AgNO 3 in enough

Molarity Worksheet 1 - Science at Yorkdale with Jessica!
Bookmark File PDF Solutions Worksheet 1 Molarity Solute Formula Mass Of Molarity = 303.76 g = 0.519 M 0.5000 L . Stoichiometry Worksheet # 3 . 1. Excess sodium hydroxide solution is added to 20.0 mL of 0.184 M ZnCl 2, calculate the mass of zinc Solutions Worksheet 1 Molarity Answers \[4.88\cancel{mol\, CuSO_{4}}\times \dfrac{1\, L\, solution}{2.35\cancel{mol\, CuSO_{4}}}=2.08\, L\, of ...

Solutions Worksheet 1 Molarity Solute Formula Mass Of
Name _____ Date_____ Period _____ Solutions Worksheet #1: Molarity 1) Complete the table: Solute formula Molar Mass of solute (g/mole) Mass of Solute (g) Moles of solute (mole) Molarity of solution (M) Volume of solution (L) a NaCl 1.0 1.0 b NaOH 117.0 4.0 c MgCl 2 190.3 2.0 d NaCl 292.5 0 .5 e KBr 238.0 2.0 f NaCl 1.5 1.0 g NaCl 1.0 0.25 h ...

molarconc.pdf - Name Date Period Solutions Worksheet#1 ...
Chemistry: Molarity of Solutions Directions: Solve each of the following problems. Show your work and include units for full credit. 1. What mass of the following chemicals is needed to make the solutions indicated? a. 1.0 liter of a 1.0 M mercury (II) chloride (HgCl2) solution. b. 2.0 liters of a 1.5 M sodium nitrate (NaNO3) solution. c. 5.0 liters of a 0.1 M Ca(OH)2 solution. d. 100 mL of a ...

Molarity of Solutions - teachnlearnchem.com
Molarity Worksheet W 331 Everett Community College Student Support Services Program What is the molarity of the following solutions given that: 1) 1.0 moles of potassium fluoride is dissolved to make 0.10 L of solution. 2) 1.0 grams of potassium fluoride is dissolved to make 0.10 L of solution. 3) 1.0 grams of potassium fluoride is dissolved to make 0.10 mL of solution. 4) 952 grams of ...

Molarity Worksheet W 331 - Everett Community College
View Notes - Molarity Worksheet ND lecture from PAS 2201 at St. John's University. Complete the following tables: Table 1: Solution 1.0 M K3PO4 1.0 M NaCl 2.0 M NaCl 1.0 M NaOH 0.1 M K2SO4 0.5 M

Molarity Worksheet ND lecture - Complete the following ...
Calculate the molarity of a solution prepared by dissolving 23.7 grams of KMnO 4 into enough water to make 750 mL of solution. This example has neither the moles nor liters needed to find molarity, so you must find the number of moles of the solute first. To convert grams to moles, the molar mass of the solute is needed, which can be found on certain periodic tables. Molar mass of K = 39.1 g ...

Learn How to Calculate Molarity of a Solution
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Solutions Worksheet 1 Molarity - wiki.ctsnet.org
Chemistry 11 Molarity Worksheet Assignment Complete on lined paper. Show all your work and watch your significant figures! 1) Calculate the molar concentration of the following solutions: a. 2.8 moles of HNO 3 in 4.0 L of solution b. 0.0700 moles of NH 4Cl in 50.0 L of solution c. 25.0 grams of NaCl in 250.0 mL of solution d. 10.0 grams of Cr(NO 3) 3 9H2O in 325 mL of solution 2) How many ...

Molarity Worksheet (Long) - Science
Molar Concentration of Solutions 1. What is the molarity of a solution made by dissolving 3.00 moles of NaCl in enough water to make 6.00 liters of solution? 2. What is the molarity of KCl solution containing 1.70 moles of KCl in 3.00 liters of solution? 3. What is the molarity of a solution containing 4.20 moles of sulfuric acid in 300.0 mL of solution? Suppose we want to know the number of ...

Molar Concentration of Solutions
6 WORKSHEET Molarity _ Dilution.pdf. 6 WORKSHEET Molarity _ Dilution.pdf. Sign In. Page 1 of 1 ...

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[EPUB] Solutions Worksheet 1 Molarity Complete The Table
QUIZ- Solubility, Solution Concentration, Dilutions Lesson: Solution Stoichiometry (lesson- pdf); - Read p. 415 - 421 (Section 9.2) *lesson- Example 4 (to complete on your own);(*ANSWER) *VIDEO: Solution Stoichiometry; How to Do Solution Stoichiometry Using Molarity as a Conversion Factor - Complete worksheet 1 (* ANSWERS) Wed, Dec. 11

UNIT 4- Solutions and Solubility - Ms. Gauthier
1. coffee ink 12. crude oil 13. bronze 14. . brass 15 16 . sea water Complete each statement with the correct term or phrase. mixture have the same composition. 17. All parts of a mixtures are not uniform in composition. 19. A true solution is formed when a solute, as molecules or ions, is dispersed to form a homogeneous mixture. throughout a ...

Craven County Schools
Molarity Worksheet 1 Answer Key Chemistry. Molarity Worksheet 1 Answer Key Chemistry ...

Molarity Worksheet 1 Answer Key Chemistry
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