

Solubility Quiz Review Date: _____ Name: _____

The Solubility Quiz is Friday, November 7, 2014

Review the following:

- * **this assignment**
- * **Factors that Affect Solubility Notes**
- * **Calculating Concentration Notes**

1) a) Calculate the concentration in g/L of a 1.5 L solution containing 60 g of solute in water. (temperature = 20 °C.)

b) If the saturation point for the above solute in water at 20 °C is 52 g/L, is the above solution unsaturated, saturated, or supersaturated?

2) How many grams of solute are present in a 3 L solution whose concentration is 22 g/L?

3) Emilia pours 18 g of table salt, NaCl, into a graduated cylinder and adds water up to the 600 mL mark.

What is the concentration of the salt solution in g/mL?

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4) You wish to make a solution of the salt KCl. How many grams of KCl are required to make 6 L of a 3.5 g/L solution?

5) How many grams of solute are present in 3 L of solution with a concentration of 20 g/L?

6) To prepare 2 L of Kool-Aid, you used 98 g of Kool-Aid powder. What is the concentration of the solution in g/L

7) How does the solubility of a solid dissolved in a liquid change as the temperature of the solvent increases?

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8) Why does a can of pop fizz when it is opened?

9) What is an unsaturated solution?

10) Explain why a supersaturated solution is considered to be unstable?