

Name _____

Period _____



YOU MUST SHOW ALL WORK & UNITS TO RECEIVE CREDIT!

1) What is the molarity of a solution prepared by dissolving 2.5g of LiNO_3 in sufficient water to make 60. mL of solution?

Answer:

3) A solution is known to have a concentration of 325 ppm. What is the mass of the solute dissolved in 1.50 kg of solvent?

Answer:

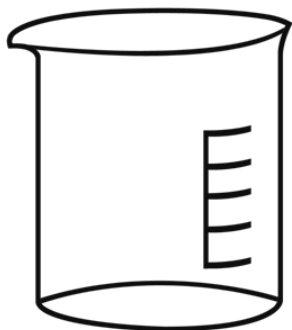
4) Calculate the molality of solution of copper (II) sulfate where 11.25 g of the crystals have been dissolved in 325 g of water.

Answer:

5) What is the molarity when 3.50 g of $\text{Mg}(\text{NO}_3)_2$ is dissolved in 250 mL of water?

Answer:

7) Draw a picture at the molecular level of a saturated vs. unsaturated solution (be sure to label your drawing which is which!)



8) Describe the difference **AND** give an example between a concentrated and dilute solution.

9) Ernie is trying to dissolve bath salts in his bathwater. Give three things he could do to speed up the rate of dissolving?

10) Most times when new reports indicate the amount of lead or mercury found in foods, they use the concentration measures of ppb (parts per billion) or ppm. Why use these over others like molarity or molality?