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Concentration of Solutions Worksheet

Calculate the concentrations of the following solutions using both percent by mass and molarity. (Assume that the density of water is 1.00 g/mol)

1)	2.3 moles of sodium chloride in 0.45 liters of solution. <u>a) Percent by Mass Concentration</u>	<u>b) Molarity</u>
2)	1.2 moles of calcium carbonate in 1.22 liters of solution. <u>a) Percent by Mass Concentration</u>	<u>b) Molarity</u>
3)	98 grams of sodium hydroxide in 2.2 liters of solution. <u>a) Percent by Mass Concentration</u>	<u>b) Molarity</u>
4)	1.2 grams of hydrochloric acid in 25 mL of solution. <u>a) Percent by Mass Concentration</u>	<u>b) Molarity</u>

Explain how you would make the following solutions. (Follow the example on the website!)

5) 1.5 L of 2.00 M NaOH_(aq)

6) 0.75 L of 0.25 M Na₂SO_{4(aq)}