Making solutions

Notes: Draw a picture for each step and include a <u>reason</u> for each step

- 1) How do you make a 1M solution?
 - Step 1: Determine the molar mass of the solute

Step 2: Add about half the volume of distilled water you need and dissolve solute

Step 3: Add distilled water to the desired volume

- 2) How do you make a 5% solution?
 - Step 1: You can assume that 1g of the solution has a volume of 1mL. Mass 5g of the solute.
 - Step 2: Add about half the volume you need and dissolve solute
 - Step 3: Add distilled water to the desired volume

3)	How many mL of a 1000mL 0.5M sucrose solution are necessary to make 500mL of 0.25M sucrose? Show your work	Dilution – used to create a dilute solution from a concentrated stock solution $C_i V_i = C_f V_f$ i = initial (starting) $C = \text{concentration of solute}$ f = final (desired) $V = \text{volume of solution}$
4)	You have 0.8M stock solution of sucrose. How many mL of stock solution sucrose?	n are needed to make 30mL of 0.5M
5)	You need 250mL of 5% NaCl. How many mL of 20% NaCl do you need ar you need?	nd how many mL of distilled water do
6)	You have 750mL of 9% NaCl. How many mL of 5% NaCl could you make	from it?