Concentration Calculations Worksheet #1	
% Composition by Mass	% Composition by Volume
Molarity	Parts per Million
Grams per Liter	$\mathbf{M}_1\mathbf{V}_1 = \mathbf{M}_2\mathbf{V}_2$
ou have 15 grams of CaCl2 dissolved into a tot 1) What is the percent by mass of CaCl ₂ ?	tal of 250 mL of water. (Use to answer #1-4)
2) What is the concentration of $CaCl_2$ in the s	solution in g/L?
3) What is the concentration of $CaCl_2$ in the s	solution expressed in Molarity?
4) What is the concentration of $CaCl_2$ in the s	solution expressed as parts per million (ppm)?
ater has a density of 1 g/mL. Fruit juice conce ou're making a fruit juice from concentrate an	entrate has a mass of 500 g/ 100 mL. Pretend d you add 100 mL of concentrate to 2 L of wat
5) What is the percent by volume of the conc	centrate in the final solution?