#### WORKSHEET ON SOLUTION CONCENTRATIONS

#### INTRODUCTION

A solution is made up of two parts, the **SOLVENT** and the **SOLUTE**. The solution could be **CONCENTRATED** or **DILUTE**.

SOLVENT	The liquid which dissolves the solute. It is usually water.		
SOLUTE	The substance which dissolves - often a solid, but not always.		
CONCENTRATED	There is a lot of solute and a little water.		
DILUTE	There is a lot of water and only a little solute.		

When we measure out 50cm<sup>3</sup> of a solution, e.g., hydrochloric acid, we measure out some solvent (water) and some acid together. In any reactions of the acid, it is the HCl particles which are involved. The water is just a carrier for the acid, so when we measure out a volume of the solution, we want to know how much acid it contains. To do this, we need to define the CONCENTRATION of the solution. This tells us how much solute there is in a fixed volume of the solution. In chemistry, "how much" means MOLES and the "fixed volume" is taken as 1 cubic decimetre (1dm<sup>3</sup>).

[NB: Idm<sup>3</sup> is 1000cm<sup>3</sup> and is the same volume as 1 litre.]

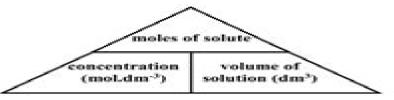
#### DEFINITION

Concentration of solution = (moles per dm³)		number of moles of solute
		volume of solution in dm <sup>3</sup>

- You must learn this relationship and be able to use it and rearrange it to calculate moles
  of solute or volume of solution, given the other two quantities.
- Remember that the volume must be in dm<sup>3</sup>, so convert from cm<sup>3</sup> if necessary.
- The units for concentration are moles per cubic decimetre which is written mol.dm<sup>-1</sup>
- Lab bottles use the letter M (meaning molar) and this is the same thing as mol.dm<sup>3</sup>

#### RELATIONSHIPS

Use the triangle opposite to help you answer the questions which follow. Some worked examples are given to help you.



#### Examples:-

- I) What is the concentration of a solution which contains 2 moles of copper (II) sulphate in 4dm³ of solution?
  - Ans: concentration = moles + volume =  $2 + 4 = 0.5 \text{ mol.dm}^3$
- 2) How many moles of sodium hydroxide are there in 200cm<sup>3</sup> of a solution of concentration 0.2 mol.dm<sup>-3</sup>? (Remember that 200cm<sup>3</sup> = 200 + 1000 = 0.2dm<sup>3</sup>)
  Ans: moles = concentration × volume = 0.2 × 0.2 = 0.04 moles

# **Skill Practice 39 Concentration Practice Answers**

William J. Kraemer, Steven J. Fleck, Michael R. Deschenes

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