Homework 2 - Nuclide Notation, formulae and conduction.

1 Complete the table

1. Complete the table.					
Element	Atomic	Mass	Number	Number	Number
	number	number	of	of	of
			protons	neutrons	electrons
11 ₅ B ³⁻					8
26 12 Mg ²⁺					
28 14 Si ⁴⁻					
	34	74			36
	17			18	18
	84	209			86
	38	87			37

2. How do we know that ${54 \atop 25}$ Mn⁷⁺ has 25 protons, 29 neutrons and 18 electrons?

3. Carbon dioxide (CO₂) is a covalent molecular compound. Lithium chloride (LiCl) is an ionic network. What do the formulae of carbon dioxide and Lithium Chloride mean? 3. Why do ionic compounds only conduct electricity as liquids and solutions and covalent compound don't conduct electricity at all?