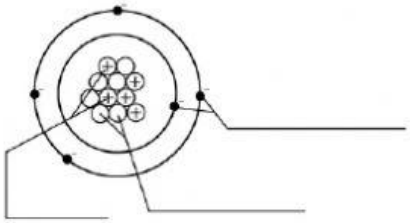
Basic Atomic Structure

1. Label the parts of an atom in the diagram below



a) What type of charge does a proton have? _____

b) What type of charge does a neutron have? _____

c) What type of charge does an electron have? _____

d) Which two subatomic particles are located in the nucleus of an atom? _____

2. An element is represented by its chemical symbol along with a few numbers. Based on the example on the right, fill in the numbers of protons (P), neutrons (N), and electrons (E) for the following elements.

8	← Atomic Number
O	← Symbol
Oxygen	← Name
15.999	← Average atomic mass

6 C Carbon 12.011	#P ____ #N ____ #E ____	10 Ne Neon 20.108	#P ____ #N ____ #E ____	19 K Potassium 39.098	#P ____ #N ____ #E ____

3. Complete the table using your knowledge of the periodic table.

Symbol	Atomic Number	Mass Number	Number of Protons	Number of Electrons	Number of Neutrons
Na			11		12
K		39		19	
			38		50
F				9	10
	20	40		20	
	50			50	69
I	53	127			

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