

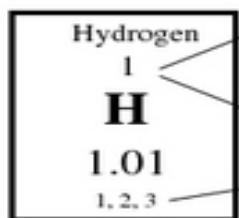
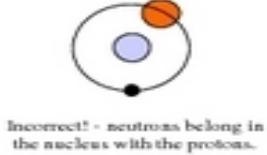
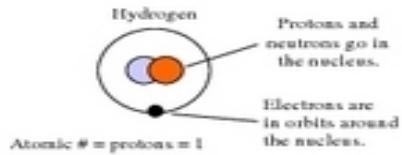
Name: _____
Period: _____

The Atom Board—Making Atoms

Ch. 18:3

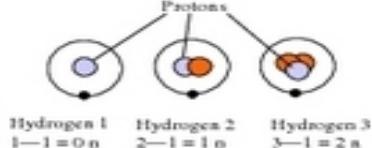
$$\# \text{ of protons} = \text{atomic #}$$

Protons are _____
Electrons are _____
Neutrons are _____

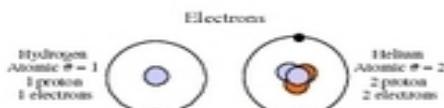


$$\text{Finding number of neutrons}$$

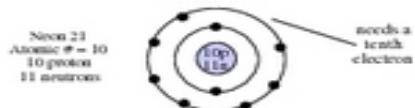
Atomic # = number of _____
Mass # = number of _____
Neutrons = Mass # - Atomic #



$$\# \text{ of electrons} = \# \text{ of protons}$$

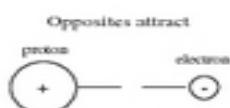


In a neutral atom there is one electron for every proton.

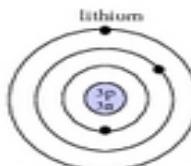


Incorrect! 10 protons attract 10 electrons. There is one electron missing.

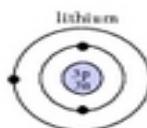
$$\text{Electrons fill up inner orbits first}$$



So electrons will want to get as close to the nucleus as possible by filling up inner electron levels first.



Incorrect! - The electrons will fill up the inner levels first. First levels takes 2 electrons.



Correct! - Inner orbit is full (with 2); one outer electron.

by C. Stephen Murray, 2003