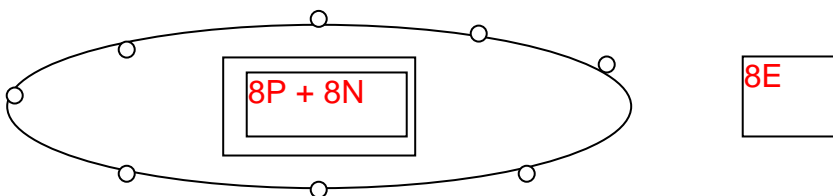


CHEMISTRY PRACTICE A-1

1. FILL IN THE CHART BELOW:

ELEMENT	SYMBOL	ATOMIC NUMBER	# PROTONS	# ELECTRONS	AMU	MASS NUMBERS	# NEUTRONS
Hydrogen	H	1	1	1	1	1 (Protium) 2 (Deuterium) 3 (Tritium)	0
Carbon	C	6	6	6	12	12	6
Nitrogen	N	7	7	7	14	14	7
Oxygen	O	8	8	8	16	16, 17 or 18	8, 9 or 10
Sodium	Na	11	11	11	23	23	12

2. DRAW AN OXYGEN ATOM:



3. MATCH THE PARTS OF AN ATOM WITH THE APPROPRIATE CHARGE:

positive (+)

negative (-)

No Charge ()

Electron (-)

Proton (+)

Neutron ()

4. MATCH THE SUBSTANCE WITH THE DESCRIPTIONS BELOW:

A.) PURE SUBSTANCE

B.) MIXTURE

BLOOD M

WATER P

AIR M

SUGAR P

HELIUM P

SALT P

ITALIAN DRESSING M

5. MATCH THE SUBSTANCE WITH THE DESCRIPTIONS BELOW:

A.) ELEMENT

B.) COMPOUND

OXYGEN ___E___

WATER ___C___

MERCURY ___E___

SUGAR ___C___

HELIUM ___E___

SALT ___C___

CARBON DIOXIDE ___C___

6. Which of the following determines “chemical properties”?

- a.) **electron** b.) proton c.) neutron

Give an example of a chemical property: **separation of components when electric current applied**

7. Which of the following determines “physical properties”?

- a.) electron b.) proton c.) **neutron**

Give an example of a physical property: **color**

8. **Electrons** shift during chemical reactions.
(**electrons**, protons, neutrons)

9. An atom that gains or loses an electron is called an **ion** and is no longer neutral.

10. The “Mass Number” equals the atomic number (protons) PLUS the number of **neutrons**.

11. True or **False**

The number of neutrons for an atom is always the same.

12. FILL IN THE ISOTOPE CHARTS BELOW:

CHLORINE

Mass number	35	36	37
Symbol	Cl	Cl	Cl
Atomic number	17	17	17
Number of neutrons = (Mass # - Atomic #)	18	19	20
Number of protons & electrons	17	17	17

PLATINUM

Mass number	194	195	196
Symbol	Pt	Pt	Pt
Atomic number	78	78	78
Number of neutrons = (Mass # - Atomic #)	116	117	118