ELEMENTS AND THE PERIODIC TABLE SIMPLE IONS

Complete the following table. Note that the name of a nonmetallic ion ends in ide while the name for a metallic ion uses the full name of the metal.

Ion Name	lon Symbol	Number of Protons	Number of Electrons	Number of Electrons Lost or Gained	Same Electrons as What Noble Gas?
e.g., fluoride	F-	9	10	gained one	neon
1.		53	54		
2.		16		gained two	
3. potassium				lost one	
4.	Ca² +			4	
5.	na odlaveny po Papola voji	35	36		
6,	Sr ²⁺				
7.	ੂ H +				(none)
8.		8		gained two	
9.		12		lost two	
10. aluminum			10		
11,		34	36		
12.	H-				
13. lithium				lost one	
14.	Rb+				
15.		17	18		

ELEMENTS AND THE PERIODIC TABLE OVERVIEW OF PERIODICITY AND ATOMIC STRUCTURE

1.	The extranuclear region of the atom, which makes up most of the volume of the atom, is occupied by
2.	Nearly all of the mass of any atom is made up of and
3.	Elements 58 through 71 and 90 through 103 are called the and
	S ²⁻ would have electrons surrounding its nucleus.
5.	An atom has 53 protons in its nucleus. In a neutral atom it will also have electrons and it will (gain/lose) (number) electron(s) to acquire the electron population of the nearest noble gas,
6.	Elements 4, 12 and 20 are closely related chemically. The name of one other element which would fit into this family called the is
7.	Element 19 has one electron taken from it. The symbol for its ion is
8.	An unknown element is a colorless gas at room temperature. Upon heating with lithium no reaction occurs. The family of elements to which the unknown element probably belongs is
9.	A soft metal reacts vigorously with water to produce hydrogen gas, H_2 . This metal probably belongs to the family.
10.	The most reactive metal is and the most reactive nonmetal is
11.	The elements which make up the B groups on the periodic table are called the elements.
12.	The number of electrons in the third energy level of a chlorine atom is
13.	The atomic number of a K atom is (greater/less) than the atomic number of a Na atom.
14.	The scientist who first proposed that electrons existed in only certain energy levels about the nucleus was
15.	The name of the ion formed by a bromine atom is
16.	The name of the ion formed by a calcium atom is
17.	The number of in the nucleus of chlorine atoms may vary.
18.	The number of electrons in the outermost energy level of a potassium ion is
19.	Atoms with the same number of protons but with a different number of neutrons in the nucleus are called
20.	The average mass of atoms for a particular element is called the
21	. The scientist who proposed the Nuclear Model of the atom was
22	. The scientist who introduced the word atom and used experimental evidence to present the Atomic Theory was
23	The maximum numbers of electrons in the first three energy levels are respectively, and
	. The charges on simple ions formed from atoms in groups IA, IIA, IIIA, VA, VIA and VIIA are respectively
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