

Part A: Circle the letter of the term or phrase that best completes the statement or answers the questions

1. Which of these particles has a positive charge?
A. Atom B. Proton C. Neutron D. Electron
2. Al, Cu, N, and O are symbols for
A. Compounds B. Elements C. Mixtures D. Gases
3. Almost all of the mass of an atom is found
A. Inside the nucleus B. In the electron cloud C. Outside the nucleus
D. In the energy levels
4. Mendeleev created the first periodic table by arranging elements in order of
A. Decreasing atomic mass B. Increasing atomic mass C. Increasing atomic number
D. Increasing densities
5. The modern periodic table is arranged in order of
A. Decreasing atomic mass B. Increasing atomic mass C. Increasing atomic number
D. Increasing densities
6. The elements in a column of the periodic table
A. Are in the same period B. Are in the same family C. have the same atomic mass
D. Have the same chemical symbol
7. The mass of an atom depends on the number of
A. Protons and electrons B. Electrons and neutrons C. Protons and Neutrons
D. Electrons and isotopes
8. The noble gas family of elements is located in Group _____ on the periodic table
A. 1 B. 18 C. 17 D. 2
9. What information in the periodic table indicates the number of protons in an atom?
A. The position of the element in its column B. The elements chemical symbol
C. The elements atomic number D. The elements atomic mass
10. What is the greatest number of valence electrons an atom can have?
A. 1 B. 4 C. 8 D. 18
11. An atom has 26 protons, 26 electrons, and 30 neutrons. It's mass number is
A. 26 B. 30 C. 52 D. 56
12. The nucleus of an atom is electrically
A. Positive B. Negative C. Neutral
13. What kind of element shares characteristics of both metals and nonmetals?
A. Transition elements B. Metalloids C. Halogens D. Alloys

14. The horizontal rows in the periodic table are known as
A. Columns B. Groups C. Periods D. Family

Part B. On the Answer sheet, write the term or phrase that best completes the statement or answers the question.

15. A chemical symbol represents the _____ of an element.
16. The sum of the number of protons and the number of neutrons in an atom is the _____.
17. What are the two parts of the atom? _____ and _____.
18. A neutral particle found in the nucleus of an atom is called a(n) _____.
19. A vertical column of elements in the periodic table is a group, or _____.
20. Negatively charged particles found outside the nucleus are _____.
21. Group one of the periodic table are called _____.
22. Two atoms of the same element that have different masses (due to different amounts of neutrons) are called _____.

Part C. Calculate the number of protons, electrons, and neutrons for the following elements (round the atomic Mass from the periodic table)

23. Sodium
24. Nitrogen
25. Silver
26. Barium

Part D. On the periodic table given on answer sheet, label the following:

- A. Transition metals
- B. Lanthanide Series
- C. Actinide Series
- D. Halogens
- E. Noble Gases
- F. Alkali Metals
- G. Alkaline Earth Elements
- H. Metalloids
- I. Metalloid Line

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