

Revision Sheets

Chapter 4- The Periodic Table

Part A- True/False

Indicate whether the statement is true or false.

- _____ 1. A metalloid is an element with all of the same properties as metals.
- _____ 2. Elements were arranged in order of increasing atomic mass on Mendeleev's first periodic table.
- _____ 3. Elements on the far right of the periodic table are classified as nonmetals.
- _____ 4. Copper is a metal and is a conductor of electricity.
- _____ 5. Ductility is not a property of metals
- _____ 6. Most metals are on the right side of the periodic table.

Part B- Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 7. The atomic number of calcium is 20. What can you tell about an atom of this element?
 - a. the sum of its protons and neutrons is 20
 - b. it has 20 protons
 - c. it has 40 protons
 - d. it has 20 neutrons
- _____ 8. The scientist best known for contributions to the development of the periodic table is _____.
 - a. Dmitri Mendeleev
 - b. Democritus
 - c. John Dalton
 - d. Albert Einstein
- _____ 9. A solid solution, such as sterling silver, is a(n) _____.
 - a. alloy
 - b. metalloid
 - c. colloid
 - d. emulsion
- _____ 10. Moving from left to right across the periodic table, how do the elements change?
 - a. They change from nonmetals to metalloids to metals.
 - b. They change from metals to metalloids to nonmetals.
 - c. They decrease in atomic number.
 - d. They are in alphabetic order.

- __ _ 21. The columns on the periodic table.
- __ _ 22. The elements that are in group 2 on the periodic table.

Part D- Short Answer

Write the correct answer for each of the following questions.

23. Describe five physical properties that can help to identify copper.
24. The _____ increases by one for each element as you move left to right across a period.
25. Classify each of the following elements as a metal, nonmetal, or a metalloid:
boron _____
carbon _____
aluminum _____
silicon _____
26. An element that is sometimes a good conductor of electricity and sometimes a good insulator is a(n) _____.
27. An element that is a poor conductor of heat and electricity, but is a good insulator is a(n) _____.
28. What are two properties that make a metal a good choice for use as wires in electronics?