

Chemistry Spot Test - 01

Time: 10 minutes

1. What is the atomic number of an element?

- A) The number of protons in an atom
- B) The number of neutrons in an atom
- C) The sum of protons and neutrons
- D) The number of electrons in an atom

2. Which of the following statements about mass number is correct?

- A) It is the total number of electrons in an atom
- B) It is always equal to the atomic number
- C) It is the sum of protons and neutrons in an atom
- D) It is the weighted average of an element's isotopes

3. An element has two isotopes: Cu-63 (69.2%) and Cu-65 (30.8%). What is the relative atomic mass of copper?

- A) 63.5
- B) 64.0
- C) 62.0
- D) 65.0

4. Which of the following correctly describes the periodic table?

- A) Rows are called groups and columns are called periods
- B) Columns are called groups and rows are called periods
- C) Elements are arranged in decreasing atomic number
- D) Noble gases are in Group 7

5. The element oxygen belongs to which group in the periodic table?

- A) Group 1
- B) Group 2
- C) Group 16
- D) Group 18

6. Which of the following elements is a noble gas?

- A) Hydrogen
- B) Oxygen
- C) Nitrogen
- D) Neon

7. What is the physical state of bromine at room temperature?

- A) Solid
- B) Liquid
- C) Gas
- D) Plasma

8. An element has 17 protons and 18 neutrons. What is its mass number?

- A) 17
- B) 18
- C) 35
- D) 36

9. Which of the following is correct about metals in the periodic table?

- A) They are mostly found on the right side of the periodic table
- B) They are poor conductors of heat and electricity
- C) They have a tendency to lose electrons
- D) They are mostly gaseous at room temperature

10. An isotope of an element has the same _____ but different _____.

- A) Number of neutrons, number of protons
- B) Atomic number, mass number
- C) Mass number, atomic number
- D) Number of protons, chemical properties