

Name: _____

Date: _____

Protons

1. The number of protons in an element has to be an even number.
 - a. True
 - b. False
2. A proton has approximately the same mass as a neutron.
 - a. True
 - b. False
3. Cobalt has 27 protons.
 - a. True
 - b. False
4. Where is the proton located?
 - a. in the nucleus
 - b. outside the nucleus
5. Protons have what type of charge?
 - a. neutral
 - b. positive
 - c. negative
 - d. none
6. A proton has approximately the same mass as _____.
 - a. a neutron
 - b. a beta particle
 - c. an alpha particle
 - d. an electron
7. If an element has an atomic number of 24 and a mass number of 52, how many protons does it have?
 - a. 24
 - b. 28
 - c. 76
 - d. 12
8. Which statement correctly compares the number of protons in oxygen and carbon?
 - a. carbon has 2 more protons than oxygen
 - b. oxygen has 2 more protons than carbon
 - c. carbon has 4 more protons than oxygen
 - d. oxygen has 4 more protons than carbon
9. Why does the proton determine the identity of an atom?
 - a. The number of protons is also the atomic mass.
 - b. The number of protons determines chemical properties, such as reactivity.
 - c. The number of protons in an atom's nucleus determines an atom's atomic number.
 - d. The number of protons decides an atom's name.
10. Which statement is most correct about the number of protons in an element and the arrangement of the Periodic Table?
 - a. An element in period 4 of the Periodic Table will have more protons than a Period 3 element will.
 - b. An element in period 3 of the Periodic Table will have more protons than a Period 4 element will.
 - c. An element in period 3 of the Periodic Table will have the same number of protons as a Period 4 element will.
 - d. There is no correlation between the period numbers on Periodic Table and the number of protons in the elements.