

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Protons

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