

Name \_\_\_\_\_

Period \_\_\_\_\_

## ATOMIC STRUCTURE WORKSHEET #2

1. Define atomic number and atomic mass.
2. What is the atomic number of titanium? How many protons does a titanium atom have? How many electrons does it have?
3. Give the **atomic mass** of each of the following atoms:
  - a. beryllium with 5 neutrons
  - b. titanium with 26 neutrons
  - c. gallium with 39 neutrons
  - d. iron with 30 neutrons
4. Define **isotope**.
5. Calcium-40 has \_\_\_\_\_ protons, \_\_\_\_\_ neutrons, and \_\_\_\_\_ electrons.
6. Tin-119 has \_\_\_\_\_ protons, \_\_\_\_\_ neutrons, and \_\_\_\_\_ electrons.
7. Carbon-13 has \_\_\_\_\_ protons, \_\_\_\_\_ neutrons, and \_\_\_\_\_ electrons.
8. An element has 8 protons and 9 neutrons.
  - a. What element is it?
  - b. How many electrons are in one atom of this element?
  - c. What is its atomic mass?
9. An element has 46 neutrons and 36 electrons.
  - a. How many protons are in one atom of this element?
  - b. What is its atomic mass?
  - c. What element is it?