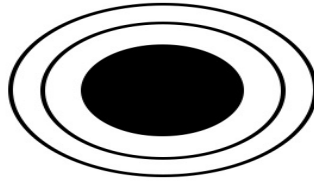


Atomic Structure

Name: _____

Date: _____

1. Draw five protons in the nucleus of the atom. Label them with their charge.
2. Draw two electrons in the first energy level and label them with their charge.
3. Draw six neutrons in the nucleus of the atom.
4. What element is represented by the diagram? _____
5. Draw three electrons in the second energy level and label them with their charge.



6. An atom contains 32 protons and 48 neutrons.
 - a) What is atomic number? _____
 - b) How many electrons does a have? _____
 - c) What is the mass of the atom? _____
7. The mass number tells the total number of _____ and _____ in the nucleus of an atom. These particles collectively are called _____ since both are located in the nucleus.
8. Write the hyphen notation of the three isotopes of hydrogen.
 - a.
 - b.
 - c.
9. The _____ of an element is the average mass of an element's naturally occurring atoms, or isotopes, taking into account the _____ of each shape.
10. The mass number is used to calculate the number of _____ in one atom of an element. In order to calculate the number of neutrons you must subtract the _____ from the _____.