Chem 1 Hour\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Wexler/Steinhorst
Basic Atomic Structure Quiz
Date:

1. Electrical wires generally consist of copper because this metallic element is highly conductive for electrons, resists corrosion, and is highly ductile.
2. What is the element symbol for copper?
3. An atom of copper contains how many protons? How do you know from the periodic table?
4. How many electrons does a neutral atom of copper contain?
5. Can the number of electrons in a copper atom change? Will it still be neutral or if no longer neutral what do we call it?
6. Approximately how many neutrons does an average copper atom contain? Show your calculation:
7. List the three subatomic particles along with their atomic masses (in atomic mass units - amu) and electrical charges (sign and magnitude).

Name of particle atomic mass charge

A.

B.

C.

1. Which two subatomic particles are located within the atomic nucleus?
2. Which subatomic particle is located outside the atomic nucleus?
3. You are looking for information on an element having 36 protons.
4. Where do you look (assuming no internet)?
5. What is the name and symbol of this element?
6. What is its atomic number?
7. What is its atomic mass (atomic weight)?
8. How many electrons does it have?
9. Approximately how many neutrons does it have? Show your calculations.