

Name \_\_\_\_\_

Score \_\_\_\_/25

Date \_\_\_\_\_

## Atomic Structure

1. Using the following words, answer the questions below.

electrons, neutrons, nucleus, protons, shells

- (a) The center of the atom is called the \_\_\_\_\_.
- (b) \_\_\_\_\_ have a positive charge.
- (c) \_\_\_\_\_ have a negative charge.
- (d) \_\_\_\_\_ have no charge.
- (e) \_\_\_\_\_ and \_\_\_\_\_ are contained within the nucleus of the atom.
- (f) Electrons are contained in the \_\_\_\_\_ of an atom.
- (g) The \_\_\_\_\_ and the \_\_\_\_\_ of the atom have the same mass.

2. A neutral atom has 54 protons and 70 neutrons.

- (a) What is the atomic number? \_\_\_\_\_
- (b) What is the mass number of the atom? \_\_\_\_\_
- (c) How many electrons does the atom have? \_\_\_\_\_
- (d) What is the name of the atom? \_\_\_\_\_

3. Assuming all the atoms have neutral charge, complete the following table using the information already provided.

	Protons	Electrons	Neutrons	Mass Number
Atom 1		30	20	
Atom 2			24	50
Atom 3	44			70
Atom 4		12		30
Atom 5	37		43	
Atom 6	19			30