PSC-4012 Quiz #1	Name:
	Date:
Indicate whether each of the following statements is true	ue (T) or false (F):
a) The ratio of a neutron's mass to an electron's mass is	1840
b) The ratio of a neutron's mass to a proton's mass is 1.	
c) The mass of an electron is 1840 times less than that of	a proton
d) The nucleus of a neutral atom contains the same number ———	per of protons and electrons.
e) The number of protons in an atom is always equal to the	ne number of neutrons
f) A neutron helps to hold the nucleus together.	
g) The volume of the nucleus is very large relative to the	volume of the atom.
h) Electrons travel within well defined energy levels insic	le the nucleus
i) In the periodic table below, the elements inside the rec	tangle are Alkali Metals
He He He He He He He He	
j) Alkali metals react readily with oxygen and halogens.	
k) The chemical properties of alkali metals are different from tals	om those of alkaline earth
Nonmetals are poor conductors of electricity	
2. Indicate the charge (positive, negative, or neutral) of ea	ach of the following:
a) proton	
b) neutron	
c) electron	
Circle the letters in front of the characteristics below the	at apply to metals:
a) shiny c) malleable	e) all solid at room temperature

d) conductors of electricity

b) ductile

f) found to the right of the staircase on the periodic table.

4. Complete the following table:

electron configuration	family name	period number
2e7e		
2e8e5e		
	Alkali Metal	4
	Noble Gas	3

5. a) Referring to the periodic table, identify which of the following elements are Arsenic isotopes.

Element	Number of protons	Number of neutrons	Number of electrons
A	33	41	36
В	32	40	28
С	33	42	25
D	34	43	36
E	33	43	33
F	35	43	36

Answer:		

b) Classify the six elements listed above as either neutral atoms, anions, or cations. Write the appropriate letters in the spaces provided.