Name:	Date:			
Class/Period:		⁶ Li	⁷ Li	⁸ Li
	Isotopes, Ions, Average Atomic Mass Review	·88.	·83.	· 200

Part I: Directions: Fill in the blank cells in the table below using the information given.

Write formula here for getting mass #!

<u>Isotopic</u> Notation	Isotope Name	Oxidation #	Atomic Number	Number Protons	Number Neutrons	Number Electrons	<u>Mass</u> Number
1. ¹⁰⁶ ₄₇ Ag ⋅₁		+1					
2.	Sulfur-34	-2	8				
3.		0		10	11		
4.		0				99	155

Part II: Directions: Fill in the blanks below using the information provided.

Ion Chemical Formula	Type of Ion	Type/# of particles lost/gained	# p*	# e ⁻	# nº	Atomic #	Mass #
5.		Gain 1 e	85				219
6.		Loses 2 e			132	88	
7. In+3							109
8.			34	36	40		y=

Par	† III - Directions: Carefully examine the following information. Use it to answer the questions below.
9.	a) A particle has 51 protons and has lost 5 electrons. Write the ion chemical formula.
	b) Type of ion (cation/anion)?
10.	a) A particle has 16 protons and has gained 2 electrons. Write the ion chemical formula.
	b) Type of ion (cation/anion)?
Par	t IV: Directions: Read the following questions/statements. Fill in the blank provided.
11.	A neutral atom changes to an ion when it gains or loses which subatomic particle?
12.	Which subatomic particle identifies an element?
13.	Which subatomic particle causes one isotope of an atom to change to a different isotope of the same element?

4.	What is the term for atoms o neutrons?			he same number of pr	otons but differing numbers of
15.	Number of protons = Number	of	fo	or a neutral atom.	
6.	What does the atomic number	correspo	nd to in an atom	?	_
7.	What determines the mass nu	ımber? _			
8.	What is a cation and how does	s it form?			
9.	What is an anion and how does	s it form?			
	nt V: Average Atomic Mass -			5	
O	. a) Given the data in the table	Isotope	Atomic Mass		known element X
		x-6	6.015 amu	7.5%	
		x-7	7.016 amu	92.5%	
	b) What is the identity of Ele	ement X co	ontained in each	isotope?	
21.	a) Given the data in the table	below, ca	lculate the <u>aver</u>	age atomic mass of un	known element X.
		Isotope	Atomic Mass	Percent Abundance	
		x-69	68.926 amu	60.108%	
		v 71	70.025	20.0029/	

Isotope	Atomic Mass	Percent Abundance
x-69	68.926 amu	60,108%
x-71	70.925 amu	39.892%