Atomic Mass, Atomic Number and Isotopes

			Name		
1.) How many proton	s are in the nucleus of ea	ach of the following?			
a.) Be		b.) U	c.) Mn		
2.) How many electr	ons are there in a neutro	l atom of each of the	following?		
a.) <i>C</i>		b.) Fe	c.) Ar		
3.) How many electr	ons are there in each of	the following atoms?			
a.) Na⁺	c.) V ³⁺	e.) Cl ⁻	g.) Sb ³⁻	i.) H	
b.) M g ²⁺	d.) O ²⁻	f.) Al ³⁺	h.) Fe ²⁺	j.) As ^{3.}	
4.) What is the ion p	produced when:				
a.) two electrons are added to 5?		e.) an	e.) an electron is added to Cr^{3+} ?		
b.) two electrons are removed from Ca?		f.) tw	f.) two electrons are removed from Mn ²⁺ ?		
c.) an electron is added to Cl?		g.) an	g.) an electron is removed from V^{4+} ?		
d.) three electrons are removed from Al?		h.) tw	h.) two electrons are added to Sb-?		
5.) What is the char	ge on the nucleus of eac	h of the following?			
a.) Mg	b.) Ne	c.) K+	d.) 5 ²⁻		
6.) The following mix	xtures of isotopes are fo	ound in nature. Calcula	te the average mass of e	each mixture.	
a.) ⁶⁹ Ga = 60.0%,	⁷¹ Ga = 40.0%				
b.) ¹⁰⁷ Ag = 51.8%,	¹⁰⁹ Ag = 48.2%				
c.) ⁷⁰ Ge = 20.5%,	⁷² Ge = 27.4%, ⁷³ Ge = 7.8°	%, ⁷⁴ Ge = 36.5%, ⁷⁶ Ge	= 7.8%		
d.) ⁶⁴ Zn = 48.9%,	⁶⁶ Zn = 27.8%, ⁶⁷ Zn = 4.1°	%, ⁶⁸ Zn = 18.6%, ⁷⁰ Zn =	= 0.6%		