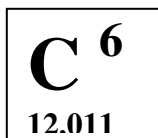


- 1) Carbon is composed of 6 isotopes. The most common are listed below. Complete the table.



	p ⁺	n	e ⁻
C-12			
C-13			
C-14			

b) Which isotopes is most abundant? _____
--

- 2) How many protons & electrons are in neutral atoms of:

Be _____, O _____, Cu _____, Ne _____, K _____, Na _____, Cf _____

- 3) Complete this table:

Element	At #	p ⁺	n	e ⁻	Symbol	Most common isotope? If not, which is?
Ca-42						
Ar-40						
H-3						
Ne-19						

- 4) Given element X, with 73 neutrons and a mass of 123 amu.

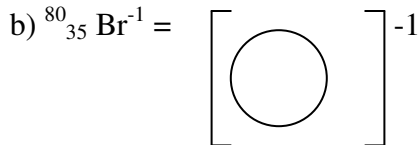
a) Complete, X has p⁺ = _____, n = _____, e⁻ = _____, Atomic mass = _____, At. # _____
 b) Name the atom X = _____

- 5) Which of these are isotopes?

Element	P ⁺	n	e ⁻	At. Mass	At. #	Identity
X	17	18				
Y				32	16	
Z	16	18				

- 6) Chlorine atoms are made of 2 isotopes, ³⁵Cl is 75.40% and ³⁷Cl is 24.60% in abundance. Calculate the average atomic mass for these 2 chlorine isotopes.

- 7) Complete these atomic diagrams:



- 8) How many neutrons are in each atom:

