

Atomic Structure/Isotope Practice Worksheet

1. Fill in the following chart:

Element	# of protons	# of electrons	# of neutrons	Mass number	Atomic number
	16			34	
Rh			72		
Ni					
			56	92	

2. Chlorine has 2 stable isotopes with masses of 35.0 amu (75.53%) and 37.0 amu (24.47%). Calculate the average atomic mass of chlorine.

3. The average atomic mass of Li is 6.941 amu. If the isotopes of lithium have masses of 6.0 and 7.0 amu respectively, what is the relative abundance of each isotope?

4. Calculate the average atomic mass of magnesium.

Isotope	Mass (amu)	Abundance %
^{24}Mg	24	78.99%
^{25}Mg	25	10.00%
^{26}Mg	26	11.01%