ATOMIC STRUCTURE WORKSHEET

Complete the table. There is enough information given for each element to determine all missing numbers.

Symbol	Atomic Number	Mass Number	Number of Protons	Number of Electrons	Number of Neutrons
²³ Na					
K		40		19	
O ²⁻			8		8
N 3-					
CI1-					
S	16				16

1. Please use the following table to calculate the average atomic mass of chlorine.

	Isotope	% Abundance	Mass (amu)
	35CI	75.78%	34.969
Γ	37CI	24.22%	36.966

Raiderium (Cv) has three naturally occurring isotopes. Raiderium is 74.655%
⁴⁴Cv, which has an atomic mass of 43.064 amu, 24.958%
⁴⁶Cv, which has a mass of 46.125 amu, and 0.387%
⁴⁸Cv, which has an atomic mass of 47.982 amu. Please calculate the average atomic mass of Raiderium.