

Subatomic Particles For Isotopes, Ions, and Atoms Worksheet

Complete the table with the correct information. (There are 3 atoms, 6 ions, and 6 isotopes)

Element	Atomic Number	Atomic Mass	Number of Protons	Number of Electrons	Number of Neutrons	Charge	Atom or Ion or Isotope?
Aluminum	13	27		10			
Arsenic	33	75					
Beryllium			4	2	5		
Chlorine					19		
Helium			2	2	1		
Iron	26	53					
Lithium		11			8		
Mercury			80	80	121		
Nickel		59		25	31		
Nitrogen	7			10	7		
Selenium	34	79		36			
Sodium			11	10	12		
Strontium	38	90			52		
Xenon							
Zinc	30	59			29		

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Answers

Element	Atomic Number	Atomic Mass	Number of Protons	Number of Electrons	Number of Neutrons	Charge	Atom or Ion or Isotope?
Aluminum	13	27	13	10	14	3+	Ion
Arsenic	33	75	33	33	42	0	Atom
Beryllium	4	9	4	2	5	2+	Ion
Chlorine	17	36	17	17	19	0	Isotope
Helium	2	3	2	2	1	0	Isotope
Iron	26	53	26	26	27	0	Isotope
Lithium	3	11	3	3	8	0	Isotope
Mercury	80	201	80	80	121	0	Atom
Nickel	28	59	28	25	31	3+	Ion
Nitrogen	7	14	7	10	7	3-	Ion
Selenium	34	79	34	36	45	2-	Ion
Sodium	11	23	11	10	12	1+	Ion
Strontium	38	90	38	38	52	0	Isotope
Xenon	54	131	54	54	77	0	Atom
Zinc	30	59	30	30	29	0	Isotope