

Atoms and Ions Worksheet

Complete the table with the correct information.

Symbol of the Element (with Charge)	Number of Protons	Number of Electrons	Overall Charge	Is it a Cation, an Anion, or a Neutral Atom?
	7	10		
	12	10		
	30	30		
	19		1+	
P^{3-}				
	38		2+	
	8			
Cr^{3+}				
	35	36	0	
	55		1+	
F^-				
	20	18		
	7	7		
	3		1+	
Al^{3+}				
		19		
S	16			
I^-				
	26	23		
Ba^{2+}				

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Answers

Symbol of the Element (with Charge)	Number of Protons	Number of Electrons	Overall Charge	Is it a Cation, an Anion, or a Neutral Atom?
N^{3-}	7	10	3-	Anion
Mg^{2+}	12	10	2+	Cation
Zn	30	30	0	Neutral Atom
K^{+}	19	18	1+	Cation
P^{3-}	15	18	3-	Anion
Sr^{2+}	38	36	2+	Cation
O	8	8	0	Neutral Atom
Cr^{3+}	24	21	3+	Cation
Br	35	36	0	Neutral Atom
Ce^{+}	55	54	1+	Cation
F^{-}	9	10	1-	Anion
Ca^{2+}	20	18	2+	Cation
N	7	7	0	Neutral Atom
Li	3	2	1+	Cation
Al^{3+}	13	10	3+	Cation
K	19	19	0	Neutral Atom
S	16	16	0	Neutral Atom
I^{-}	53	54	1-	Anion
Fe^{3+}	26	23	3+	Cation
Ba^{2+}	56	54	2+	Cation