

# Atomic Structure – Practice Worksheet

There is enough information given for each element to determine all missing numbers. Using your knowledge of the periodic table, complete the table below.

Symbol	Atomic Number	Mass Number	Number of Protons	Number of Electrons	Number of Neutrons
$^{23}\text{Na}^+$					
$\text{K}^{1+}$		39			
			13	10	14
$\text{F}^{1-}$					10
	26	56		26	30
	50			50	72
$^{131}\text{I}^{1-}$					
$^{26}\text{Mg}^{2+}$					
		109	47	46	
H	1	2		1	
$^{36}\text{S}$				18	
	26			23	30
$^{118}\text{Sn}^{2+}$				48	
	2	4		2	
Cr		53			

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## Answers

Symbol	Atomic Number	Mass Number	Number of Protons	Number of Electrons	Number of Neutrons
$^{23}\text{Na}^+$	11	23	11	10	12
$\text{K}^{1+}$	19	39	19	18	20
$\text{Al}^{3+}$	13	27	13	10	14
$\text{F}^{1-}$	9	19	9	10	10
$\text{Fe}$	26	56	26	26	30
$\text{Sn}$	50	122	50	50	72
$^{131}\text{I}^{1-}$	53	131	53	54	78
$^{26}\text{Mg}^{2+}$	12	26	12	10	14
$\text{Ag}^{1+}$	47	109	47	46	62
$\text{H}$	1	2	1	1	1
$^{36}\text{S}$	18	36	18	18	18
$\text{Fe}^{3+}$	26	56	26	23	30
$^{118}\text{Sn}^{2+}$	50	118	50	48	68
$\text{He}$	2	4	2	2	2
$\text{Cr}$	24	53	24	24	29