Name:

Electron Configuration Practice

In the	e space below, v	write the full electron configurations of the following elements:
1)	magnesium	
2)	cobalt	
3)	bromine	
4)	phosphorous	
5)	nitrogen	
In the	e space below, v	write the abbreviated (Noble Gas) electron configurations of the following elements:
6)	nickel	
7)	sulfur	
8)	selenium	
9)	potassium	
10)	fluorine	
Deter	rmine what eler	nents are denoted by the following electron configurations:
11)	$1s^22s^22p^63s^2$	$3p^2$
12)	$1s^22s^22p^63s^2$	$3p^64s^23d^{10}4p^6$
13)	$[Ar] 4s^1 3d^5$	
14)	[He] 2s ²	
15)	[Ne] $3s^23p^6$ _	
	the full electro	on configuration, draw the full orbital diagrams (boxes), and state how many unpaired e electrons.
16)	Chlorine	e- configuration
	Orbit	al Diagram:
	Unpa	ired electrons = Valence electrons =
17)	Sodium	e- configuration
	Orbit	al Diagram:

Unpaired electrons = _____ Valence electrons = _____

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In the space below, write the full electron configurations of the following IONS:

- 18) Na⁺
- 19) S^{2-}
- 20) Be^{2+}
- 21) F _____
- 22) Al³⁺

In the space below, write the abbreviated (Noble Gas) electron configurations of the following elements:

- 23) Ca²⁺
- 24) V^{2+}
- 25) V^{5+}
- 26 Co²⁺
- 27) Mn²⁺
- 28) If there was an element discovered with the atomic number of 119, what would the valence shell electron configuration be???