Electronic Configuration Questions

name:

1.	Sketch and complete the orbital diagram for the following atoms on your own paper: $_{17}$ Cl, $_{26}$ Fe, and $_{38}$ Sr.						
2.	Write the complete 40Zr 28Ni 82Pb 35Br 105Db 79Au	e electronic confi	guration for the f	following species	:		
3.	What are valance electrons?						
4.	How many valance	ow many valance electrons do each of the following atoms have:					
	S	K	I	Fe	N	Mg	
5.	Draw the dot struc	tures for the foll	owing atoms.				
	S	K	I	Fe	N	Mg	
6.	What ionic charge	would you expe	ct the following a	toms to have?			
	S	K	I	Fe	N	Mg	
5.	Write the complete Br- Ca ²⁺ P ³⁻ Zn ⁺² Cr ⁺⁵	e electronic confi	guration for the f	following:			
6.	Why are the nobles gases (VIIIA) so unreactive ?						
7.	Why does calcium tend to form Ca ²⁺ and not Ca ⁺ cations?						
7.	What ion should Br tend to form? Justify your answer.						

Note: Be able to write the electronic configuration for any given element or ion from the periodic table.

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7.	Sketch an orbital diagram for $_{15}\mathrm{P}$.					
	Energy					
8.	Write the complete electronic configuration for the following species:					
	₄₀ Zr					
	₈₆ Rn					
3.	Identify the valence electrons found in :					
	Al Ba Fe Br					
8.	Write the complete electronic configuration for the following: $S^{2\text{-}}$					
	V^{2+}					
	Why does chlorine tend to form Cl ⁻ and not Cl ²⁻ anions ?					