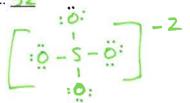
Lewis	Structures	Day	2
FEM12	Structures	Day	4

Name:	KEY	p
Random adj: _	Corny	

Count up the valence electrons present (look at charge) and then draw the correct Lewis structures for the following ions.

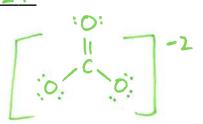
1) SO4-2 Name: Sulfate



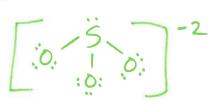
3) CIO-1 Name: hypochlorite
VE: 14



5) CO3-2 Name: <u>Carbonate</u> VE: <u>24</u>



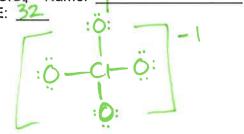
2) SO<sub>3</sub>-2 Name: 5ulfite VE: 2C



4) CN-1 Name: Cyanide
VE: 10



6) ClO<sub>4</sub>-1 Name: VE: 32



7) Identify the type of bond described for each of the following as: ionic (I), polar covalent (PC), nonpolar covalent (NPC) or metallic (M):

PC\_a) The C-O bonds in CO<sub>2</sub>

\_c) The bonds in Ba

 $\stackrel{}{=}$  e) The bonds in  $K_2O$ 

MPC b) The C-C bonds in C<sub>3</sub>H<sub>8</sub>

<u>▶</u>PC\_d) The bonds in F₂

PC\_f) The H-O bonds in H<sub>2</sub>O

9) Which of the following bonds would be the least polar bond?

N - O

0 - S

10) Write formulas for each of these ionic substances:

a) ammonium hydroxide NH4OH

- c) sodium hypochlorite NaClO
- d) barium sulfite