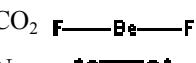
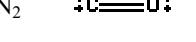
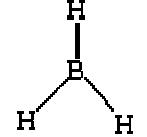
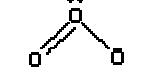
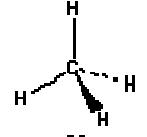
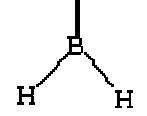
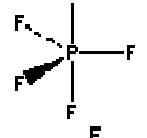
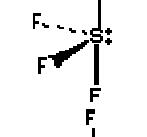
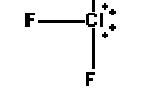
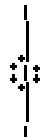
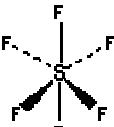
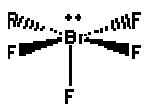


The Relationship Between the Number of Places Where Valence Electrons Can Be Found and the Geometry Around an Atom

Places Where Electrons are Found	Places With Bonding Electrons	Places With Non-bonding Electrons	Distribution of Electrons	Molecular Geometry	Examples
2	2	0	linear	linear	$\text{BeF}_2, \text{CO}_2$ 
	1	1		linear	CO, N_2 
3	3	0	trigonal planar	trigonal planar	$\text{BF}_3, \text{CO}_3^{2-}$ 
	2	1		bent	O_2, SO_2 
	1	2		linear	O_2 
4	4	0	tetrahedral	tetrahedral	$\text{CH}_4, \text{SO}_4^{2-}$ 
	3	1		trigonal pyramidal	$\text{NH}_3, \text{H}_3\text{O}^+$ 
	2	2		bent	$\text{H}_2\text{O}, \text{ICl}_2^+$ 
	1	3		linear	HF, OH^- 
5	5	0	trigonal bipyramidal	trigonal bipyramidal	PF_5 
	4	1		seesaw	$\text{SF}_4, \text{TeCl}_4, \text{IF}_4^+$ 
	3	2		T-shaped	ClF_3 

2	3		linear	I_3^- , XeF_2	
6	6	0	octahedral	octahedral	
5	5	1		square pyramidal	
4	4	2		square planar	