

Chem I

Name _____

Date _____ Per _____

Worksheet # C26: Practicing Lewis Structures

Directions: Draw each of the following Lewis structures. Remember to check that you've used the correct number of valence electrons and that all the atoms (except H, Be, and B) are following the octet rule.

1) Bromine: Br_2 _____ (# of valence electrons) 6) Ammonia: NH_3 _____

2) Hypochlorous acid: HOCl _____

7) Carbon disulfide: CS_2 _____

3) Vinyl chloride: $\text{C}_2\text{H}_3\text{Cl}$ _____

8) Boron tetrabromide: BBr_3 _____

4) Ethane: C_2H_6 _____

9) Methyl alcohol: CH_3OH _____

5) Ethene: C_2H_4 _____

10) Difluoride oxide: F_2O _____

11) Ethyne: C_2H_2 _____

16) ONBr _____

12) Sulfate ion: SO_4^{2-} _____

17) Freon: CCl_2F_2 _____

13) Hydrazine: N_2H_4 _____

18) Beryllium dichloride: $BeCl_2$ _____

14) Benzene: C_6H_6 _____

19) Trimethyl amine: $N(CH_3)_3$ _____
[hint: put N in the middle]

15) C_4H_{10} _____ : This formula has two isomers. Draw the Lewis structures of each.