VSEPR Practice

Be sure you know how to draw correct Lewis Dot Structures and are able to correctly predict the electronic arrangement and molecular geometry before going on to the lab assignment. (First identify ionic or covalent and then draw the correct image!)

Remember, formal charges can sometimes help you decide which is the best Lewis Dot Structure.

**Draw the problems and show your work on an extra sheet of paper!**

1. Draw the best Lewis Dot Structure for each of the following species.

      a)      BeF2

b)      BCl3

c)      CCl4

d)      PBr5

e)      SI6

1. Give the name of the electronic arrangement and the name for the molecular geometry for each of the species in question #1.
2. Draw the best Lewis Dot Structures for each of the following species.

      a)      BH2–

b)      NI3

c)      ClF4+

d)      SF5–

1. Give the name of the electronic arrangement and the name for the molecular geometry for each of the species in question #3.