

Honors Chemistry
Worksheet 13.1

NAME:
DATE:

1. Fill out the table below.

| Formula | NH ₃ | BeF ₂ | BCl ₃ | CBr ₄ | PH ₃ | H ₂ S | HI | BF ₃ |
|--|-----------------|------------------|------------------|------------------|-----------------|------------------|----|-----------------|
| Total # of Valence e ⁻ | | | | | | | | |
| Electron Dot Structure | | | | | | | | |
| Family # of Central Atom | | | | | | | | |
| # of Bonds to Central Atom | | | | | | | | |
| # of Shared Pairs of e ⁻ on Central | | | | | | | | |
| # of Unshared Pairs of e ⁻ on Central | | | | | | | | |
| Shape Name | | | | | | | | |
| Bond Angle | | | | | | | | |

2. How are the number of bonds and family numbers related?