Name: _____ Date: _____ Chemistry

4-5 Practice

- 1. Write out the electron configurations for (a) Potassium and (b) Cobalt. How many unpaired electrons does each possess?
- 6. Which element has the following electron configuration: $1s^22s^22p^63s^23p^64s^23d^1$

- 2. Which element has the following electron configuration: Is²2s²2p³?
- 7. Write out the electron configurations for (a) bismuth and (b) vanadium. How many unpaired electrons does each possess?

- 3. Write out the electron configurations for (a) silicon and (b) lithium. How many unpaired electrons does each possess?
- 8. Which element has the following electron configuration: $1s^22s^22p^63s^23p^64s^23d^{10}4p^65s^24d^{10}$?

- 4. Which element has the following electron configuration: 1s²2s²2p⁶3s²3p³?
- 9. Write out the electron configurations for (a) Sulfur and (b) Mercury. How many unpaired electrons does each possess?
- 5. Write out the electron configurations for (a) Iridium and (b) Selenium. How many unpaired electrons does each possess?
- 10. Which element has the following electron configuration: [Xe] $6s^24f^{14}5d^6$?