# Chemistry: Homework Set 4-8

1. Write the electron configuration notation for each of the following:

|  |  |
| --- | --- |
| 1. Zinc |  |
| 2. Barium |  |
| 3. Phosphorus |  |
| 4. Neon |  |
| 5. Iodine |  |

1. Using the electron configuration given, determine what element it represents:

|  |  |
| --- | --- |
| Electron configuration | Represented element |
| 1s2 2s2 2p6 3s2 3p6 4s2 3d10 4p2 |  |
| 1s2 2s2 2p6 3s2 3p6 4s2 3d10 4p6 5s2 4d10 5p2 |  |
| 1s2 2s2 2p6 3s2 3p6 4s2 3d10 4p6 5s1 |  |
| 1s2 2s2 2p6 3s2 3p4 |  |

1. Explain why the electron configuration written below is *incorrect*.

1s2 2s2 2p8 3s2 3p3