Name Period Date

**Electron Configuration – Ch. 4**

**Part A – Orbital Diagrams & Longhand Electron Configuration**

Use the patterns within the periodic table to draw orbital diagrams and write longhand electron configurations for the following atoms.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Symbol | **# e-** | **Orbital Diagram and****Longhand Electron Configuration** |
|  | Mg |  |  |
|  | P |  |  |
|  | V |  |  |
|  | Ge |  |  |

**Part B – Shorthand Electron Configuration**

Use the patterns within the periodic table to write the shorthand electron configurations for the following elements.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Symbol** | **# e-** | Shorthand Electron Configuration |
|  | Ca |  |  |
|  | Pb |  |  |
|  | F |  |  |
|  | Pd |  |  |