**Worksheet #4**

**Name: Period: Seat#:**

1. Neon

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Orbital diagram** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Electron configuration** |  |
| **E.C.****using noble gas notation** |  |

1. Magnesium

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Orbital diagram** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Electron configuration** |  |
| **E.C.****using noble gas notation** |  |

1. Chlorine

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Orbital diagram** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Electron configuration** |  |
| **E.C.****using noble gas notation** |  |

1. Potassium

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Orbital diagram** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Electron configuration** |  |
| **E.C.****using noble gas notation** |  |

1. Iron

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Orbital diagram** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Electron configuration** |  |
| **E.C.****using noble gas notation** |  |

1. Krypton

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| **Orbital diagram** |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Electron configuration** |  |
| **E.C.****using noble gas notation** |  |

1. Write the corresponding NOBLE GASS configuration for each of the following pictorial representations. Name the element assuming that the configuration describes a neutral atom.





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| --- | --- | --- | --- |
| **Q** | **Total # e-** | **Name** | **Noble Gas Configuration** |
| a |  |  |  |
| b |  |  |  |
| c |  |  |  |
| d |  |  |  |
| e |  |  |  |

1. Which group of elements has a noble gas configuration that ends in ns2?