

Electron Configuration Worksheet

Write the unabbreviated electron configurations of the following elements:

- 1) copper _____
- 2) iodine _____
- 3) potassium _____
- 4) bismuth _____
- 5) zirconium _____

Write the abbreviated electron configurations of the following elements:

- 6) iridium _____
- 7) chlorine _____
- 8) nobelium _____
- 9) caesium _____
- 10) magnesium _____

The following electron configurations belong to which elements:

- 11) $1s^2 2s^2 2p^6 3s^1$ _____
- 12) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^6$ _____
- 13) $[Kr] 5s^2 4d^{10}$ _____
- 14) $[Xe] 6s^2 4f^{14} 5d^{10} 6p^2$ _____
- 15) $[Rn] 7s^2 5f^{14} 6d^4$ _____

Determine if the following electron configurations are correct:

- 16) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 4d^{10} 4p^6 5s^1$ _____
- 17) $1s^2 2s^2 2p^6 3s^3$ _____
- 18) $[Rn] 7s^2 5f^9 6d^2$ _____
- 19) $[Ar] 5s^2 4d^{10} 5p^5$ _____
- 20) $[Xe] 6s^2 4f^{10}$ _____