

Electron Configuration Worksheet #2

Please use complete notation.

Write the electron configuration for:

1. He
2. Be
3. Cd
4. Xe
5. Cs
6. La
7. Pa
8. At⁻
9. Al³⁺
10. Ra²⁺

The following configurations are the ground state of what element?

11. $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^1$
12. $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^6 7s^2 6d^1 5f^3$
13. $[\text{Xe}]6s^2 5d^1 4f^8$
14. $[\text{Kr}]5s^1$
15. $[\text{Ar}]4s^2 3d^{10} 4p^5$