

Noble gas notation practice sheet
Write the noble gas electron configuration for the following elements

1. P _____
2. Fe _____
3. Sn _____
4. Ni _____
5. Ag _____
6. Co _____
7. Sb _____
8. Bi _____
9. Ra _____

Determine what elements are denoted by the following configurations

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

Explain what is wrong in the following electron configurations.

15. $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 4d^{10} 4p^6$ _____
16. $1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10}$ _____
17. $1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2$ _____