

1. T, T, T, F, T, T, F, F

2. 3
5

3. $\begin{array}{|c|} \hline \uparrow\downarrow \\ \hline \end{array}$ $\begin{array}{|c|c|c|} \hline \uparrow & \uparrow & \uparrow \\ \hline \end{array}$ --- or the 4p electrons can point down
4s 4p

4. s
Pd
Be

5. 0
2
3

6. 132

7. 3
3
 N^{3-} or O^{2-} or F^-

8. $[\text{Ar}] 4s^2 3d^{10}$
 $[\text{Kr}] 4d^3$
 $[\text{Rn}] 7s^2 5f^{14} 6d^{10}$

9. Na^+