Warm-Up: The Periodic Table

1. Write the symbol for the element that ends its electron configuration with 6p^2. _______

2. How many valence electrons does phosphorus (P) have? _________

3. What is the largest element in period 5? ____________

4. What is the smallest element in group 6A? ________

5. What charge will aluminum have when it becomes an ion? ___

6. **Name** the family of elements that all have a -1 charge when they become ions: _____________

7. Circle the symbol of the element that is the **largest** of this set: P   S   N

8. Circle the symbol of on that is the **smallest** of this set: As^{3-}   Se^{2-}   Br^{-}

9. Give the valence electron configuration for antimony (Sb). _______________________

10. Circle the symbol of the element that has the largest ionization energy: Si   P   As

11. What is the name given to the 4-f block of elements? _________________________

12. Determine the group, period, and block for the element having the electron configuration of [Kr]5s^24d^4.

   Group _____  period_____  block_____