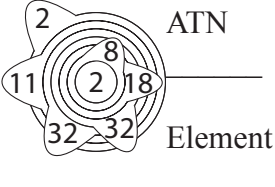



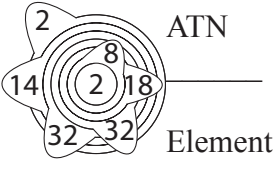

**Rare Earths Transactinides (1-10) -**  
Very hard with high melting and boiling points.

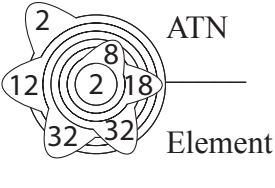

**Directions:** Add the number of protons of each element and name the element.

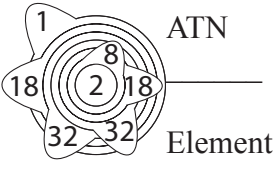

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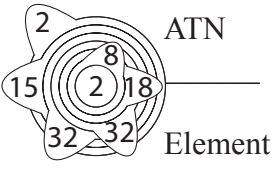



1. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 32 \\ 32 \\ 11 \\ + 2 \\ \hline \end{array}$$



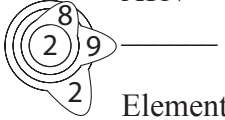

2. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 32 \\ 32 \\ 14 \\ + 2 \\ \hline \end{array}$$





3. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 32 \\ 32 \\ 12 \\ + 2 \\ \hline \end{array}$$



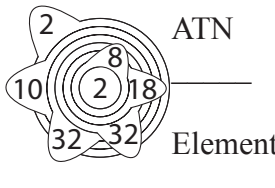

4. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 32 \\ 32 \\ 18 \\ + 1 \\ \hline \end{array}$$



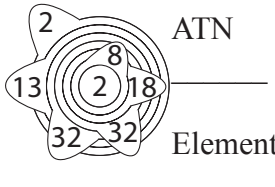

5. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 32 \\ 32 \\ 15 \\ + 2 \\ \hline \end{array}$$



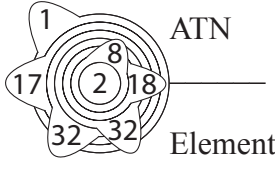

**Noble Gasses (11-16) - Somewhat nonreactive with low boiling points.**

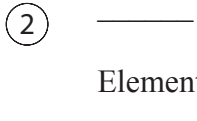

6. 
$$\begin{array}{r} 2 \\ 8 \\ 9 \\ + 2 \\ \hline \end{array}$$



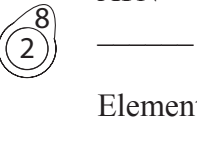

7. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 9 \\ + 2 \\ \hline \end{array}$$



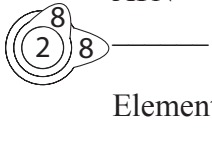
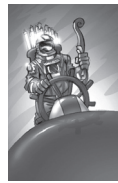
8. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 32 \\ 32 \\ 10 \\ + 2 \\ \hline \end{array}$$



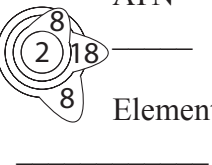

9. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 32 \\ 32 \\ 13 \\ + 2 \\ \hline \end{array}$$



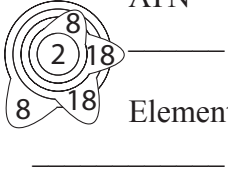

10. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 32 \\ 32 \\ 17 \\ + 1 \\ \hline \end{array}$$



11. 
$$\begin{array}{r} 2 \\ + 0 \\ \hline \end{array}$$



12. 
$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$



13. 
$$\begin{array}{r} 2 \\ 8 \\ + 8 \\ \hline \end{array}$$



14. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ + 8 \\ \hline \end{array}$$



15. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 18 \\ + 8 \\ \hline \end{array}$$



16. 
$$\begin{array}{r} 2 \\ 8 \\ 18 \\ 32 \\ 18 \\ + 8 \\ \hline \end{array}$$
