

Mystery Elements in a Mock Periodic Table

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1. Element **Ph** is a Noble gas with its 4th energy level filled with 8 electrons. It is in Family ____ Period ____ **Ph**
2. Element **Bc** has its 2nd energy level filled with 8 valence electrons. It is in Family ____ Period ____ **Bc**
3. Element **X** has only 1 valence electron and in the same period as element Ph. It is in Family ____ Period ____ **X**
4. Element **Tq** has 2 valence electrons and two energy levels. It is in Family ____ Period ____ **Tq**
5. Element **Ra** is in the same period as element Bc and has 1 valence electron. It is in Family ____ Period ____ **Ra**
6. Element **Qr** is a Nobel gas with the smallest atomic number. It is in Family ____ Period ____ **Qr**
7. Element **St** is also a Nobel gas It is in Family ____ **St**
8. Element **Rn** has 1 valence electron and three energy levels. It is in Family ____ Period ____ **Rn**
9. Element **Az** has 1 valence electron and the highest atomic number in that family. It is in Family ____ Period ____ **Az**
10. Element **Z** has 2 valence electrons and the highest atomic number in that family. It is in Family ____ Period ____ **Z**
11. Element **B** has 7 valence electrons and only 2 energy levels. It is in Family ____ Period ____ **B**
12. Element **O** has 6 valence electrons in its outer energy level and three energy levels. It is in Family ____ Period ____ **O**
13. Element **Sp** has 7 valence electrons and is in the same period as Rn. It is in Family ____ Period ____ **Sp**
14. Element **Mk** is in the same family as element B It is in Family ____ Period ____ **Mk**
15. Element **H** is a metal with 2 valence electrons and 3 energy levels. It is in Family ____ Period ____ **H**
16. Element **Hp** has the lowest atomic number of all the elements. This means is atomic number is ____ **Hp**
17. Element **Pt** is a metalloid in the same period as X, it has 5 valence electrons. It is in Family ____ Period ____ **Pt**
18. Element **J** is a metalloid with the lowest atomic number of all the metalloids. It is in Family ____ Period ____ **J**
19. Element **I** and **R** are both in the same period as element Z. R has a higher atomic number than I. I and R are on period ____ R goes farther to the (right, left) **I R**
20. Element **Tk** has 2 valence electrons. It is in Family ____ Period ____ **Tk**

Families are valence electrons
and go in columns

