Mystery Elements in a Mock Periodic Table

Procedure: Using your knowledge of valence electrons and the periodic table, fill in the mystery elements in their proper spaces.

Drag and drop the element symbol to the correct location

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

