

For each of the following, find the element that best matches the description.

1. This element has 2 valence electrons in the fifth shell. _____
2. This element has 7 shells and one valence electron. _____
3. This element needs 1 more valence electron to have a full 4th shell _____
4. This element needs to lose 1 valence electron in its 3rd shell to have a full outer 2nd shell _____
5. This element has a full valence with only 2 electrons _____

For the following, write how many valence electrons and shells the element has.

6. Germanium (Ge) _____
7. Polonium (Po) _____
8. Xenon (Xe) _____
9. Indium (In) _____
10. Astatine (At) _____

Answer the following questions.

11. What do all the elements in group 5 have in common?

12. What do all the elements in period 6 have in common?

13. Which element will react like Bromine (Br): Krypton (Kr) or Iodine (I)? Why?
