Chemistry Quiz: Trends, Bonding, VSEPR - Page 2

1. Which type of chemical bond occurs between a metal and a nonmetal?
2. In which type of chemical bond are the atoms held together by a shared pool of mobile electrons?
3. Which type of chemical bond involves the transfer of electrons?
4. Show the bonds in a CO2 molecule. (Include all shared and unshared electron pairs.)
5. A compound has a low MP and BP. What type of chemical bonds are probably holding this molecule together?
   1. a. Ionic b. covalent c. metallic
6. A compound has a high MP and a high BP and conducts electricity when dissolved in water. What type of chemical bonds are probably holding this molecule together?
   1. a. ionic b. covalent c. metallic
7. What is the oxidation number of Zinc?
8. List the 7 elements that form diatomic molecules. (Do not include At - Astatine.)
9. Which has a bigger radius?

Na or Mg?

1. Which has a smaller radius?

B or Al?

1. Which is more electronegative?

Ca or Mg?

1. Which has a lower ionization energy?

Ba or Sr?