

Practice Bonding Quiz

Name: _____

Date: _____

1. Which of the following atoms has the greatest tendency to gain electrons?

- A. Al B. Rb C. I D. F

2. Which is the correct electron dot symbol for an aluminum atom in the ground state?

- A. Al: B. $\overset{\cdot}{\underset{\cdot}{\text{Al}}}$: C. : $\overset{\cdot}{\underset{\cdot}{\text{Al}}}$: D. $\cdot\overset{\cdot}{\underset{\cdot}{\text{Al}}}$:

3. Which species has the same electron configuration as a Cl^- ion?

- A. S B. Ar C. Br^- D. F^-

4. Which pair of elements form an ionic bond with each other?

- A. KCl B. ICl C. PCl D. HCl

5. Which compound contains both covalent and ionic bonds?

- A. KCl B. NH_4Cl
C. MgCl_2 D. CCl_4

6. Which type of bond is present in a water molecule?

- A. polar covalent B. nonpolar covalent
C. ionic D. electrovalent

7. Which substance contains a polar covalent bond?

- A. Na_3N B. Mg_3N_2
C. NH_3 D. N_2

8. Which electron dot formula represents a nonpolar molecule?

- A. $\begin{array}{c} \text{H} \\ \text{H} : \text{C} : \text{Cl} \\ \text{H} \end{array}$ B. $\begin{array}{c} \text{H} \\ \text{H} : \text{N} : \\ \text{H} \end{array}$
C. $\begin{array}{c} \text{H} \\ \text{H} : \text{C} : \text{H} \\ \text{H} \end{array}$ D. $\begin{array}{c} \text{H} : \text{O} : \\ \text{H} \end{array}$

9. Which formula represents a molecule with the most polar bond?

- A. CO B. NO C. HI D. HCl

Practice Bonding Quiz 10/30/2015

1.
Answer: D
2.
Answer: B
3.
Answer: B
4.
Answer: A
5.
Answer: B
6.
Answer: A
7.
Answer: C
8.
Answer: C
9.
Answer: D