RQ for Covalent Compounds

Name:

electron number.

Date: _____

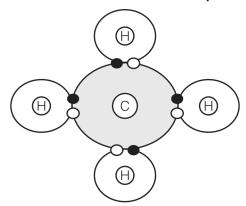
D. CaBr₂

it is released

1.	Carbon reacts with chlorine to form CCl ₄ . What is the name of this compound?	7.	Which compound is <i>most likely</i> formed using covalent bonds?
	A. carbon 4-chloride		A. CO ₂ B. K ₂ O C. KBr D. CaBr
	B. 1-carbon 4-chloride	8.	
	C. tetracarbon chloride		SO ₂ is a colorless gas with a very strong odor similar to that of a just struck match. It is a common form of air pollution that contributes to the formation of acid precipitation as it is released from coal burning plants.
	D. carbon tetrachloride		
2.	Which is the correct formula for dinitrogen pentoxide?		What is the chemical name for SO_2 ?
	A. N ₄ O B. NO ₂ C. N ₂ O ₅ D. NO ₄		A. Monosulfur dioxide
			B. Sulfur oxide
3.	Which of the following is NOT a diatomic molecule?		C. Sulfur dioxide
			D. Monosulfide dioxide
	A. H ₂ B. Cl ₂ C. CaI ₂ D. Br ₂	9.	All living things contain which element?
4.	How many covalent bonds can nitrogen form?		A. helium B. sodium
	A. 1 covalent bond B. 2 covalent bonds		C. copper D. carbon
	C. 3 covalent bonds D. 4 covalent bonds		
5.	What is the chemical formula for dinitrogen monoxide is more commonly known as laughing gas?		
	A. NO ₂ B. N ₂ O C. N ₂ O ₂ D. NO		
6.	Which statement <i>best</i> describes the atoms of elements that form compounds by covalent bonding?		
	A. They share electrons between them.		
	B. They have a large difference in atomic mass.		
	C. They are in the same period in the periodic table.		
	D. They have a large difference in valence		

10. The diagram shows a model of a methane molecule, which has the formula CH_4 .

Model of Methane (CH₄)



Which phrase correctly describes the relationship of the carbon and hydrogen atoms in a methane molecule?

- A. They are held together by ionic bonds.
- B. They share electrons to form covalent bonds.
- C. They bond to each other since all nuclei are positively charged.
- D. They are attracted to each other since the nucleus of each atom contains neutrons.