Name:	Class/Period:							
Part 1: Valence Elect	rons	Chemistry	Quiz 5					
Write the name of element's symbol.	ach of the follo	wing elements, and ad	d the correct num	ber of electron do	ts to each			
F	Al	Ge	Rı	ı	Ca			
1.)	2.)	3.)	4.)	5.)				
Si	О	Не	В		Sn			
6.)	7.)	8.)	9.)	10.)				
the Rule of Eight an	16.) g and that will be f d the Rule of Z	chlorine 13.) gallium 17.) formed by each pair of ero Charge. lium + chlorine NaCl	potassium f elements. Make s	18.) phosphorus _ure that the comp				
19.) lithium + oxyger	1	20.) magnes	ium + chlorine					
21.) aluminum + fluo	rine	22.) potassiu	ım + nitrogen					
23.) calcium + oxyge	n	24.) rubidiui	m + bromine					
Part 3: Covalent Bon	ding							
Draw the Lewis dot that your compound		he structural formula e of Eight.	for each of the fol	lowing compound	ls. Make sure			
25.) carbon tetrafluor	ide, CF ₄		26.) methanol, CH₃OH					

27.) hydrazine, N ₂ H ₄		28.) chloropentane, C ₅ H ₁₁ Cl					
29.) methylamine, CH ₃ NH ₂			30.) ethene, C_2H_6				
31.) acetone, CH ₃ CO	CH_3		32.) carbon dioxide, 0	CO_2			
Part 4: Identifying Bonding Types Aeryn and Bob are investigating a new set of chemical compounds in the laboratory. Use the evidence listed for							
			nt, or metallic bonding.	,			
33.) Aeryn reacted calcium with phosphorus in the presence of oxygen. The resulting substance is a brittle white crystal.							
	Circle one:	COVALENT	IONIC	METALLIC			
34.) Bob reacts bromine with chorine to form a brownish-yellow gas. It turns into a liquid at 5°C and freezes at -54°C.							
-5 4 C.	Circle one:	COVALENT	IONIC	METALLIC			
35.) Aeryn heats a mixture of gallium, indium and tin. They bond together to form a dense, silvery substance that is liquid at room temperature. The liquid conducts electricity and does not dissolve in water. It freezes at -19° C and becomes a soft, malleable solid.							
	Circle one:	COVALENT	IONIC	METALLIC			
36.) Bob reacts lithium with water. The lithium fizzes, bubbles, and then disappears into the water, forming a clear solution. When the water is evaporated, white crystals form at the bottom of the beaker.							
	Circle one:	IONIC	COVALENT	METALLIC			
37.) Aeryn heats germanium in the presence of oxygen. The result is a white powder that does not dissolve in water. When melted, it does not conduct electricity.							

COVALENT METALLIC

Circle one: IONIC