Dougherty Valley HS Chemistry Bonding and Structure – Review Naming, Neutral Compounds, and Lewis Dot Structures

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Name:				Period:	Seat#:				
Ans	Answer the following questions:								
1)	What are the three types of bonds and how are their electron positions different?			Why do you need to use prefixes for naming covalent bonds and not for naming ionic bonds?					
3)	Why does carbon dioxide have two double bonds?			ements have more than 8 elect what do we call it when they o					
5)	List the Roman numerals from	n 1 to 10.							

Complete the following table:

Name	Type of Bond	Formula
6) Na ₂ SO ₄		
7) SiO ₂		
8)		Lead (II) nitrite
9)		Chromium (III) oxide
10) HgO		
11)		Iron (II) phosphate
12)		Hexaboron silicide
13) SCI ₄		
14) P ₄ S ₅		
15) NaHCO ₃		

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Draw the Lewis Structure for the following molecules:

Molecule	Lewis Structure		iption	Molecule	Lewis Structure	Description	
16)		# of Single Bonds	# of Double Bonds	17) Sulfate		# of Single Bonds	# of Double Bonds
SF ₆				ion			
# Valence electrons		# of Triple Bonds	# of Lone Pairs	# Valence electrons		# of Triple Bonds	# of Lone Pairs
18) CH₃OH		# of Single Bonds	# of Double Bonds	19) BFCl ₂		# of Single Bonds	# of Double Bonds
# Valence electrons		# of Triple Bonds	# of Lone Pairs	# Valence electrons		# of Triple Bonds	# of Lone Pairs
20) O ₃		# of Single Bonds	# of Double Bonds	21) BeH ₂		# of Single Bonds	# of Double Bonds
# Valence electrons		# of Triple Bonds	# of Lone Pairs	# Valence electrons		# of Triple Bonds	# of Lone Pairs
		# of Single	# of Double			# of Single	# of Double
22) Sil ₄		Bonds	Bonds	23) K₂SO₃		Bonds	Bonds
# Valence electrons		# of Triple Bonds	# of Lone Pairs	# Valence electrons		# of Triple Bonds	# of Lone Pairs
24) Fe ₃ (PO ₄) ₂		# of Single Bonds	# of Double Bonds	25) NaOH		# of Single Bonds	# of Double Bonds
# Valence electrons		# of Triple Bonds	# of Lone Pairs	# Valence electrons		# of Triple Bonds	# of Lone Pairs