Lewis Dot Structure Worksheet: Solutions. Don't cheat. Work the problems first.

CH ₄	H ₂ O	CO_2	N_2	BeCl ₂
C central atom, octet rule	O central atom, octet again	C central, famous double bond	Famous triple bond	Be is too small for octet
S/2/B = 1, single	S/2/B = 1, single	S/2/B = 2, double	S/2/B = 1, triple	S/2/B = 1, single
-	-			
BF ₃	C_2H_4	C ₂ H ₆	СО	O ₂
B is too small for octet	Multiple central, but C is	Multiple central, but C is octet	Another famous triple bond	Famous double bond
S/2/B = 1, single	octet not for multiple central atoms	not for multiple central atoms	S/2/B = 3, triple	S/2/B = 2, double
5/2/B 1, 5mg/c	not for manapie comman atoms	not for manapie contain atoms	5/2/D 5, tiple	S/2/B 2, doddie
NO	NO ₂	NO ₃	NH ₃	NH ₄ ⁺
Odd ball, no octet	Is this odd? e saves the day	Famous resonance	Famous tetrahedral, octet rule	Still tetrahedral even with H ⁺
S/2/B = 2.5, ???	S/2/B = 3/2, resonance	S/2/B = 4/3, resonance	S/2/B = 1, single	S/2/B = 1, single
0	CIE2	SO ₄ =	CE	CE
O ₃ Why is this famous?	C1F3 What the heck is this? Hard.	SO ₄ Famous for not being resonance	SF ₆ 6 bonds, must be octahedral	SF ₄ This one is NOT like CH ₄
S/2/B = 3/2, resonace	S/2/B = 2/3, larger than octet	S/2/B = 1, single	S/2/B = 2/3, larger than octet	S/2/B = 3/4, larger than octet
I ₃ -	XeCl ₂	PF ₅	$CO_3^=$	BrF ₅
Laude's favorite example S/2/B = _, larger than octet	Do these make bonds? S/2/B = _, larger than octet	5 bonds make trigonal pyrimidal $S/2/B = 4/5$, larger than octet	Another famous resonance $S/2/B = 4/3$, resonance	Not 5 electron regions, but 6 S/2/B = 3/5, larger than octet
S/2/B, larger man octet	5/2/B, larger than octet	5/2/B - 4/3, larger than octet	5/2/D = 4/5, resonance	5/2/B - 5/3, larger than octet

Lewis Dot Structure Worksheet: In the first box below the formula, write your first impression of the Lewis formula. In the second box, calculate S/2/B and identify bonding around central atom.

CH ₄	CCl ₄	CO ₂	N_2	$BeCl_2$
			_	_
BF ₃	C ₂ H ₄	C_2H_6	СО	O_2
	-2 -	- 2 0		- 2
NO	NO -	NO -	NIII	NIII +
NO	NO ₂ -	NO ₃	NH ₃	NH ₄ ⁺
O_3	ClF3	$\mathrm{SO_4}^=$	SF ₆	SF ₄
I_3	XeCl ₂	PF ₅	CO ₃ =	BrF ₅
		<i>y</i>	3	<i>J</i>