



# Covalent Bonding

SHARE valence e<sup>-</sup>

$H_2O$   
 $2(1) + 6 = 8$

(outside take)

~~H-O-H~~

(center give away)

8 Bank

- ① Start with 5b
- $8 - 4 = 4$
- ② Fix Periphery
- ③ Fix central atom
- $4 - 1 = 3$

Nov 9-8:50 AM

Single	sb	—	2e <sup>-</sup>	:
double	db	=	4e <sup>-</sup>	::
triple	tb	≡	6e <sup>-</sup>	:::

p16 P44j  
2D

Nov 9-8:57 AM

$\text{P} \text{U}_3$   
 $1(5) + 3(7) = 26e^-$  Bank of valence  $e^-$

$\text{U} \text{---} \overset{\text{+1}}{\text{P}} \text{---} \text{U}$

3 bond site  
 1 non-bond site  
 (one pair of  $e^-$ )

connect with sb	26
	- 6
Fix outer periphery	20
	- 18
Fix central atom	2
	- 2
	<del>0</del>

Nov 9-9:04 AM

$\text{CO}$   
 $1(4) + 1(6) = 10$

$\text{C} \text{---} \text{O}$  ~~sb~~

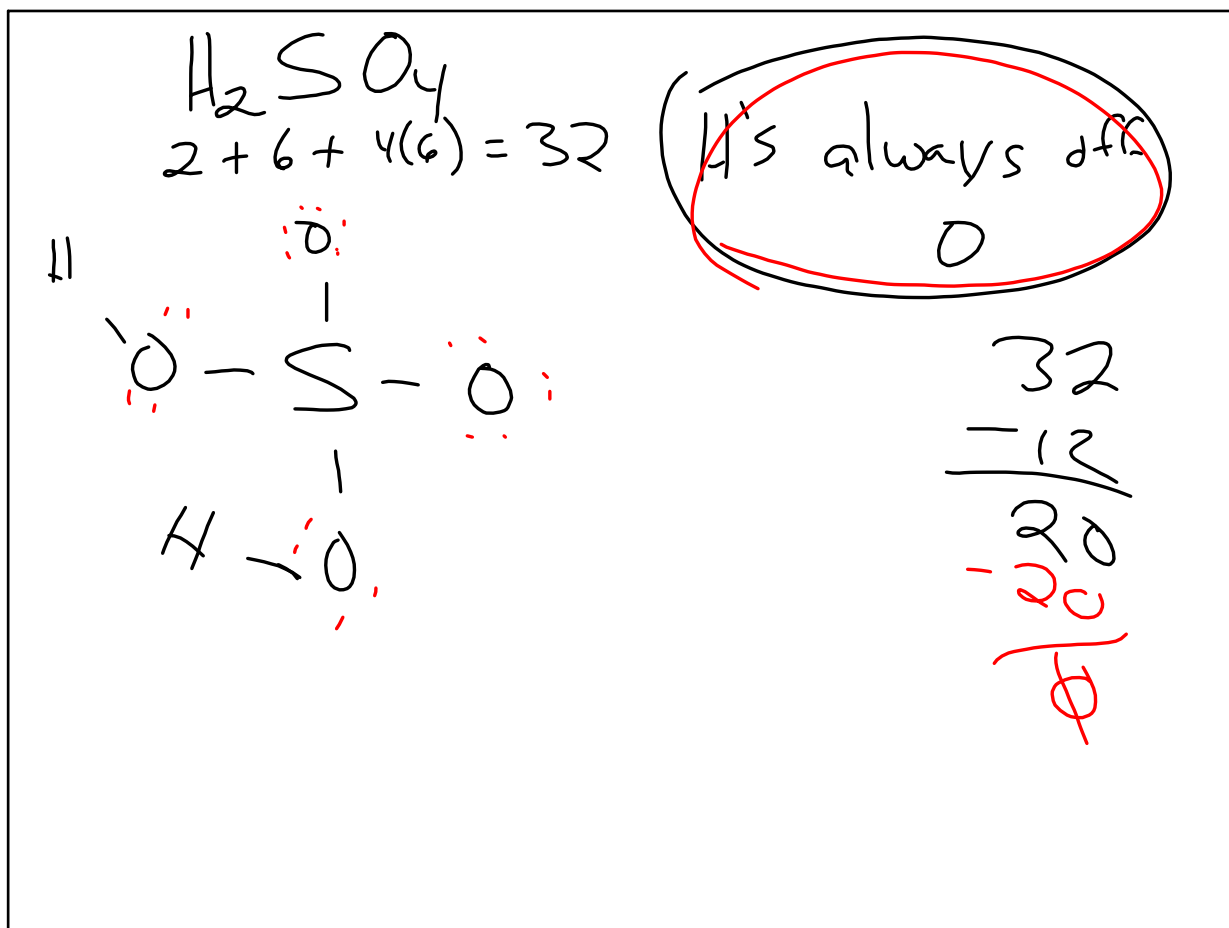
$\text{C} = \text{O}$  ~~sb~~

$\text{C} \equiv \text{O}$  sb

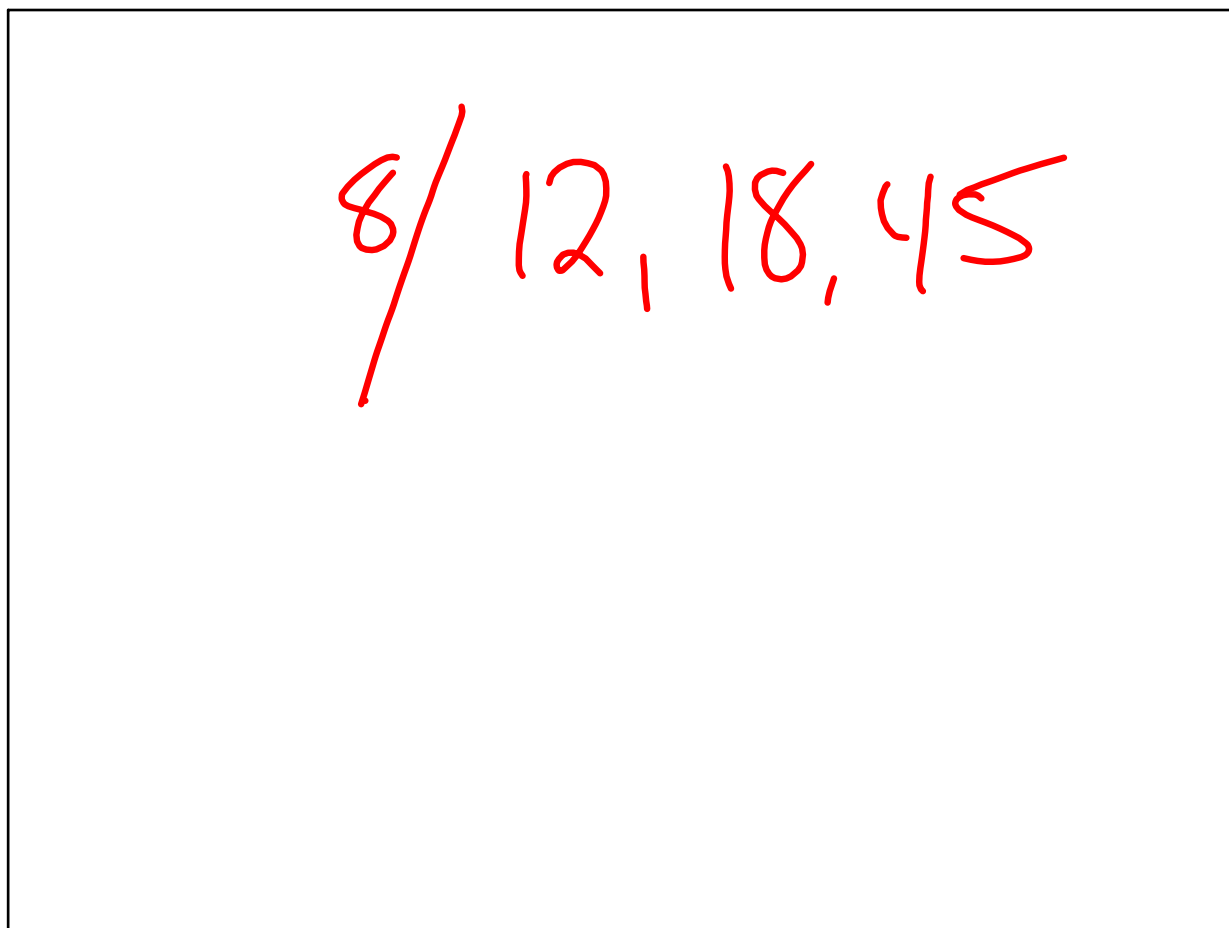
10
- 2
8
- 8
0

empty  
 try db  
 then  
 6

Nov 9-9:10 AM



Nov 9-9:15 AM



Nov 9-9:17 AM