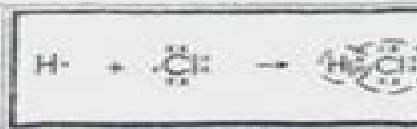


COVALENT BONDING

Name _____

Covalent bonding occurs when two or more nonmetals share electrons, attempting to attain a stable octet of electrons at least part of the time. For example:

H wants 2 electrons
all other atoms 8



Note that hydrogen is content with 2, not 8, electrons

6 electrons
in the middle
share

Show how covalent bonding occurs in each of the following pairs of atoms. Atoms may share one, two or three pairs of electrons.

1. H + H (H₂)
W = 2 - 4 - available
A = 2
S = 2



H - H
single bond - since 2 e⁻

2. F + F (F₂)
W = 8 + 8 = 16
A = 7 + 7 = 14
S = 2



:F:F:
double bond - since 2 e⁻

3. O + O (O₂)
W = 8 + 8 = 16
A = 6 + 6 = 12
S = 4



:O=O:
4 double bond

4. N + N (N₂)
W = 8 + 8 = 16
A = 5 + 5 = 10
S = 6



5. C + O (CO)
W = 8 + 8 = 16
A = 4 + 6 = 10
S = 8



6. H + O (H₂O)
W = 2 + 2 + 8 = 12
A = 1 + 1 + 6 = 8
S = 4



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