

Subatomic Particles

Counting Valence Electrons (e⁻) [*Representative Groups*]

Valence Electrons are based on group on the table

Group	Name	Val e ⁻	Group		Val e ⁻
1A (1)	Alkali Metals	1	5A (15)	Pnictogens	5
2A (2)	Alkali Earth Metals	2	6A (16)	Chalcogens	6
3A (13)	Earth Metals	3	7A (17)	Halogens	7
4A (14)	Carbon Group	4	8A (18)	Noble Gases	8

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Counting Valence Electrons (e⁻) [*Transition Metals*]

Valence Electrons are based on group on the table

Transition Metals can have 1 – 7 valence electrons (*base 2*)

Group	3B (3)	4B (4)	5B (5)	6B (6)	7B (7)	8B (8)	8B (9)	8B (10)	1B (11)	2B (12)
Element	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn
Possible Valence electron	3	3 4	2 3 4 5	2 3 4 6	2 3 4 5 7	2 3 6	2 3	2 3	1 2 3	2

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