

# Valence Electron and Lewis Dot Structure

Write the group number and the number of valence electrons for the given elements. Then, draw the Lewis structure and indicate how many electrons are gained or lost by that element to complete the outermost orbit.

Element	Group number	Number of valence electrons	Lewis structure	Number of electrons gained or lost
Hydrogen				
Beryllium				
Boron				
Nitrogen				
Oxygen				
Chlorine				
Calcium				
Aluminum				
Bromine				
Sulfur				

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## Answers

Element	Group number	Number of valence electrons	Lewis structure	Number of electrons gained or lost
Hydrogen	1	1	H•	Lose 1 electron
Beryllium	2	2	•Be•	Lose 2 electrons
Boron	13	3	•B•	Lose 3 electrons
Nitrogen	15	5	•N•	Gain 3 electrons
Oxygen	16	6	•O•	Gain 2 electrons
Chlorine	17	7	•Cl•	Gain 1 electron
Calcium	2	2	•Ca•	Lose 2 electrons
Aluminum	3	3	•Al•	Lose 3 electrons
Bromine	17	7	•Br•	Lose 3 electrons
Sulfur	16	6	•S•	Lose 3 electrons