

Science 8: Subatomic Particles

Check Your Answers!

Name: Key

Determine the number of protons, neutrons, and electrons of the following ions.

Name	Symbol	Mass (rounded)	Charge	Protons	Neutrons	Electrons
Calcium	Ca	41	+2	20	$41 - 20 = 21$	18
Bromine	Br	72	-1	35	37	36
Carbon	C	14	0	6	8 8	6
Sodium	Na	23	+ 2	11	12	10
Chlorine	Cl	37	- 2	17	20	18
Oxygen	O	16	-2	8	8	10
Nitrogen	N	14	- 3	7	7	10
Lithium	Li	7	+1	3	4	2
Fluorine	F	19	+2 -1	9	10	10
Argon	Ar	36	0	18	18	18
Neon	Ne	22	0	10	12	10
Helium	He	4	+ 2 0	2	2	2
Boron	B	10	+2 +3	5	5	2

Name	Symbol	Mass (rounded)	Charge	Proton	Neutron	Electron
Silicon	Si	28	4-	14	14	18
Aluminum	Al	27	3+	13	14	10
Phosphorus	P	31	3-	15	16	18
Arsenic	As	70	+3	33	37	30
Chromium	Cr	52	+2	24	28	22
Potassium	K	39	2 1+	19	20	18
Magnesium	Mg	26	2+	12	14	10
Nickel	Ni	58	2+	28	30	26
Chlorine	Cl	35	1-	17	18	18
Sulfur	S	32	-2	16	16	18
Zinc	Zn	62	+2	30	32	28
Iron	Fe	54	+3	26	28	23
Krypton	Kr	74	0	36	38	36
Phosphorous	P	30	+2	15	15	13

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* always use given mass# to calculate neutrons *