

Isotopes, Ions, and Atoms Worksheet

Complete the table with the appropriate information.

Symbol	Charge	Atomic Number	Mass Number	Number of Protons	Number of Electrons	Number of Neutrons
${}_{17}^{36}\text{Cl}$						
${}_{48}^{113}\text{Cd}^{-}$						
${}_{15}^{31}\text{P}^{3-}$						
${}_{83}^{209}\text{Bi}^{3+}$						
${}_{71}^{180}\text{Lu}$						
${}_{53}^{128}\text{I}^{-}$						
${}_{40}^{128}\text{Zr}^{2+}$						
${}_{76}^{188}\text{Os}^{4+}$						
${}_{92}^{238}\text{U}^{6+}$						
${}_{49}^{116}\text{In}^{3+}$						
${}_{82}^{206}\text{Pb}^{4+}$						
${}_{34}^{79}\text{Se}^{2-}$						
${}_{21}^{42}\text{Sc}$						
${}_{47}^{108}\text{Ag}$						

Isotopes, Ions, and Atoms Worksheet

Answers

Symbol	Charge	Atomic Number	Mass Number	Number of Protons	Number of Electrons	Number of Neutrons
${}_{17}^{36}\text{Cl}$	0	17	36	17	17	19
${}_{48}^{113}\text{Cd}^{-}$	-1	48	113	48	49	65
${}_{15}^{31}\text{P}^{3-}$	-5	15	31	15	18	16
${}_{83}^{209}\text{Bi}^{3+}$	+3	83	209	83	80	126
${}_{71}^{180}\text{Lu}$	0	71	180	71	71	109
${}_{53}^{128}\text{I}^{-}$	-1	53	128	53	54	75
${}_{40}^{128}\text{Zr}^{2+}$	+2	40	86	40	38	46
${}_{76}^{188}\text{Os}^{4+}$	+4	76	188	76	72	112
${}_{92}^{238}\text{U}^{6+}$	+6	92	238	92	86	146
${}_{49}^{116}\text{In}^{3+}$	+3	49	116	49	46	67
${}_{82}^{206}\text{Pb}^{4+}$	+4	82	206	82	78	124
${}_{34}^{79}\text{Se}^{2-}$	-2	34	79	34	36	45
${}_{21}^{42}\text{Sc}$	0	21	42	21	21	21
${}_{47}^{108}\text{Ag}$	0	47	108	47	47	108