

6	← Atomic #
C	← Symbol
Carbon	← Name
12.01	← Avg. Atomic Mass

→ same →

Atomic Structure

[6e⁻]

(6p⁺ nucleus)

Don't know | n^o or Mass # (given 1)

Unknown

Egns: $n^o = \text{Mass\#} - \text{Atomic\#}$ | $\text{Mass\#} = p^+ + n^o$

Isotopes: elements w/ diff. # of n^o

Carbon-12: 98.9% (6p ⁺ , 6n ^o)	Carbon-13: 1.00% (6p ⁺ , 7n ^o)	Carbon-14: 0.01% (6p ⁺ , 8n ^o)
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Format: Element - X $\begin{matrix} X \\ Y \end{matrix}$ Element $\begin{pmatrix} X \\ Y \end{pmatrix} E$

Carbon-12 $\frac{12}{6}$ C

X = Mass # Y = Atomic #

Iron-56
 Name Mass#

Mass # → 66 Zn ← Symbol
 Atomic# → 30

Element: Iron	Mass#: 56	Symbol: Zn	Mass#: 66
Symbol: Fe	$n^0 = \text{Mass\#} - \text{Atomic\#}$	Element: Zinc	$n^0 = \text{Mass\#} - \text{Atomic\#}$
Atomic#: 26	$= 56 - 26$	Atomic#: 30	$= 66 - 30$
$p^+ : 26 \quad e^- : 26$	$n^0 = 30$	$p^+ : 30 \quad e^- : 30$	$n^0 = 36$