Toki pona new number system

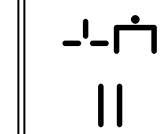
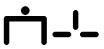
V 0.09alpha

20240309 Saturday

Vocabulary

The ideas for the choice of the names are indicated between square brackets [ ]

1	*wan*		*one*
2	*tu*		*two*
3	*sin*		*three [3 lines]*
4	*lipu*		*four [4 sides]*
5	*luka*		*five*
6	*pipi*		*six [6 elements]*
7	*len*		*seven [4 sides + 3 lines]*
8	*musi*		*eight [two circles look a kind of 8]*
9	*suli*		*nine [the "big" digit]*
10	*sewi*		*10 (base) followed by integer powers (1 is implicit): 2, 3, 4,... [raise]*

20	*tu sewi*		*two * ten*
30	*sin sewi*		*three * ten*
100	*sewi tu*		10^2
300	*sin sewi tu*		*three * ten*^{2}
1000	*sewi sin*		10^3
+	*en*		*addition*
-	*weka*		*negative [subtract]*
.	*sike*		*separator for decimal part*

This system is intended as a way of ***reading*** decimal numbers written with the digits 0 to 9 and included in toki pona texts. It is not intended as a replacement of the current system.

Non-additive numbers

Numbers are *non-additive* by default

120 = *wan tu ala*

2024 = *tu ala tu lipu*

Numbers as powers of 10

1000 = 10^3= *sewi sin*

10 000 = 10^4= *sewi lipu*

...

1 000 000 000 = 10^9= *sewi suli*

Composed numbers

The number to the left of *sewi* has multiplicative value.

The additive value of a number (sequence) is stated explicitly with *en*.

4 000 000 012 = 4*10^9+ 12 = *lipu sewi suli en wan tu*

Decimal numbers

3.14 = *sin sike wan lipu*

Numbers with negative exponents

6.62 × 10^{-34} = *pipi sike pipi tu sewi weka sin lipu*

Dates

US system

May 12, 2024 = *tenpo mun luka tenpo suno wan tu tenpo sike tu ala tu lipu*

ISO 8601 system

2024-05-12 = *tenpo sike tu ala tu lipu tenpo mun luka tenpo suno wan tu*