

# Calculations with integers

To begin : Introduce a positive integer in "N"

- Factorization
- Factorial
- Change of base
- Highest common divisor
- Lowest common multiple

The screenshot shows the 'Integers' application window. It features several panels:

- Info**: A header for the main data area.
- Serie**: A table listing a series of numbers with their decimal, hexadecimal, and binary representations.
 

name	N	hex	bin
a	48	30	110000
b	16	10	10000
c	440	1B8	110111000
d	64	40	1000000
- hcd**: Highest common divisor of the series, shown as 8.
- lcm**: Lowest common multiple of the series, shown as 10560.
- Factorization**: Shows the prime factorization of N (16) as  $2^4$ .
- N!**: Shows the factorial of N as 20922789888000.
- Expression in base**: A table showing the representation of N in various bases.
 

B	N
B = 16	10
B = 2	10000
B = 8	20
B = 12	14
- Operation**: A calculator interface showing the division of 'c' by 'b' resulting in 27.5.

## Series

- Highest common divisor
- Lowest common multiple

## Results (for N)

- Factorization
- N factorial (N!)
- N expression in others bases

## From base X to others

1. Introduce N in any base
2. Double click upon his row (all values will be updated)

**Aritmethic operations** with numbers of the series

$\wedge + - * / !$