

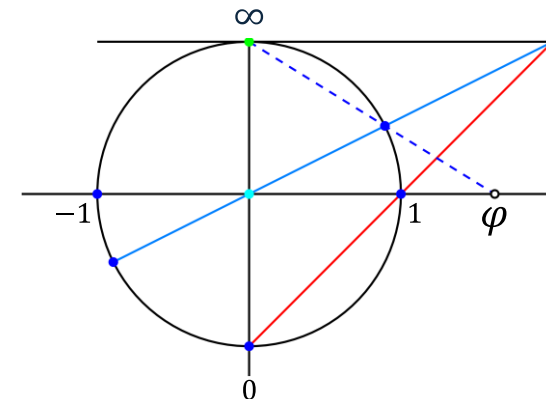
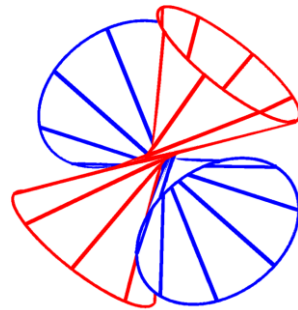
# Numbers by the running meter

Decimal expansion of  $\pi$  (as much as can be printed along the side of a 2-meter folding ruler)

3.1415926535897932384626433832795028841971693993751058209749445923078164062862089986280348253421170679821480865132823  
066470938446095505822317253594081284811174502841027019385211055596446229489549303819644288109756659334461284756482337867831652  
712019901456485669234603386104541266481338660360289141773723581056003155831744361820920958282540917536367892590360013305  
30548804065113044695194311804433052203052699199309278017389920117831031848074562379962749567918084527248912270381830  
119491298367332440866440866213949463992247379070217986084370277053821176293178752364614818467060465132005681271482635608  
277857184157199733117215810901246330161991527060791236805891342015561127252130664342889331297713  
09967338291215999908179780490110597176216166089562346346384590809429230525334163503926792112872000031779338865  
875332083814206171776691473035982534904287554687311595628638823537875937519577818577805321712268066130019278766111959092164201  
9893 © MeterMorphosen 2012 8632778659361533818279682303019520353018529689957736225994138912497217752834791315155 www.metermorphosen.de 9506  
29533116861727855889075098381754637464939319255060400927701671139009848824012858361603563707660104710181942955590196

A product from MeterMorphosen (DE)

English translation and comments  
Ignace Lasters  
*Een voor Twee*  
Alfred Verweeplein 17  
8300 Knokke  
Belgium  
[www.nolandahoy.com](http://www.nolandahoy.com)



2 is the only even prime number

$\pi = 3.14 \dots$

Roman numbers:

I (1), II (2), III (3), IV (4), V (5), VI (6), VII (7), VIII (8), IX (9), X (10)  
L (50), C (100), D (500), M (1000)  
MMXXV = 2025

The Dirty Dozen (1967 war film)  
13 = Baker's Dozen  
(medieval English practice)

One of a kind; unique item  
Monolith, prototype, one person,  
One-dimensional (1-D)

DIN A4 page is  
sized 21 x 29.7 cm  
 $\frac{29.7}{21} = \sqrt{2}$



$\phi = 1.68 \dots$

$\sqrt{2} = 1.41 \dots$

Triangular numbers

Examples:  $6 = 1 + 2 + 3$

$10 = 1 + 2 + 3 + 4$

$15 = 1 + 2 + 3 + 4 + 5$

$21 = 1 + 2 + 3 + 4 + 5 + 6$

Number of days in a week

Numbers that are members of the  
(standard) Fibonacci series are marked  
with an "F", e.g. 1F, 3F, 5F, 8F,...

Dozen

12.5 cm = 1/8 meter

$1 + 2 + 3 + 4 + 5 = 15$

8	1	6
3	5	7
4	9	2

Magic square

Same sum of numbers in every row, column,  
diagonal. In this magic 3 x 3 Square: 15

Twin Prime

**Twin Prime Conjecture:**  
there are infinitely  
many twin primes

Prime numbers are printed  
in Red, e.g. 2, 3, 5, 7, 11,...

Twin primes:

$p$  prime and  $p+2$  is also prime

Cubic number:  $n^3$   
 $27 = 3^3$  is the first odd  
cubic number  
(note  $8 = 2^3$  is even).

Binary, Dual, Bits, Bytes

Two persons, two-dimensional (2-D)  
Image and mirror image,  
two connected objects



$21 = 1 + 2 + 3 + 4 + 5 + 6$

Decimal number,  
binary representation and  
binary expansion

$1 = 1 = 2^0$

$2 = 10 = 1 \times 2^1 + 0 \times 2^0$

$5 = 101 = 1 \times 2^2 + 0 \times 2^1 + 1 \times 2^0$

$10 = 1010 = 1 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 0 \times 2^0$

24 hours in a day

25 cm = 2/8 = 1/4 meter

26 letters in the  
English alphabet

A perfect number is  
a positive integer  
that is equal to the  
sum of its proper  
divisors  
Example

$28 = 1 + 2 + 4 + 7 + 14$

28 is also a triangular number

$28 = 1 + 2 + 3 + 4 + 5 + 6 + 7$

30 is the  
smallest number  
with three  
different prime  
factors.

$30 = 2 \times 3 \times 5$

$33 = 1! + 2! + 3! + 4!$   
 $33 = 1 + 2 + 6 + 24$

16	2	3	13
5	11	10	8
9	7	6	12
4	14	15	1

Example of 4x4 magic  
square using all  
numbers 1 to 16) and  
summing up to the  
magic constant 34.

$3 \times 37 = 111$  is a "special" because it  
shows up in a neat number pattern.  
It is a repunit (a number made of  
only 1's).

Even more interesting:

$37 \times 3 = 111$

$37 \times 6 = 222$

$37 \times 9 = 333$

...

$37 \times 27 = 999$