

# 162 Decimal Expansion

## **Irrational number (section Decimal expansions)**

expressed in positional notation, notably as a decimal number. In the case of irrational numbers, the decimal expansion does not terminate, nor end with a repeating...

## **Binary number (redirect from Binary-to-decimal conversion)**

00011... . It may come as a surprise that terminating decimal fractions can have repeating expansions in binary. It is for this reason that many are surprised...

## **Hexadecimal (section Distinguishing from decimal)**

system that represents numbers using a radix (base) of sixteen. Unlike the decimal system representing numbers using ten symbols, hexadecimal uses sixteen...

## **List of mathematical constants**

circle's circumference to its diameter. The following list includes a decimal expansion and set containing each number, ordered by year of discovery. The...

## **Duodecimal (redirect from Duo-decimal)**

the number twelve is denoted "10", meaning 1 twelve and 0 units; in the decimal system, this number is instead written as "12", meaning 1 ten and 2 units...

## **Number**

have infinitely long expansions to the left of the decimal point, in the same way that real numbers may have infinitely long expansions to the right. The...

## **Computable number**

digit of the real number's decimal expansion as output. (The decimal expansion of a only refers to the digits following the decimal point.) Turing was aware...

## **Binary prefix (section Comparison of binary and decimal prefixes)**

60027-2 standard (Amendment 2). They were meant to replace the metric (SI) decimal power prefixes, such as "kilo" (k,  $10^3 = 1000$ ), "mega" (M,  $10^6 = 1000000$ )...

## **Chronology of computation of ?**

Approximations of ?. As of May 2025, ? has been calculated to 300,000,000,000,000 decimal digits. History of pi Approximations of ? Linus Tech Tips (2025-05-16)...

## **7 (section Decimal calculations)**

denominator is converted to a decimal expansion, the result has the same six-digit repeating sequence after the decimal point, but the sequence can start...

### 31 (number)

part of the decimal expansion for  $\pi$  in base-10 is the last consecutive non-zero digit represented, starting from the beginning of the expansion (i.e, the...

### 33 (number)

93506 ...  $\{ \displaystyle 32.93506 \ldots \}$  Written in base-ten, the decimal expansion in the approximation for  $\pi$ ,  $\pi \approx 3.141592 \dots$

### Champernowne constant (section Continued fraction expansion)

Champernowne constant  $C_{10}$  is a transcendental real constant whose decimal expansion has important properties. It is named after economist and mathematician...

### 1

number, and the basis for all numbers.  $0.999\dots$  – Alternative decimal expansion of 1 Colman 1912, pp. 9–10, chapt.2. Graham, Knuth & Patashnik 1994...

### 86 (number)

these). It is conjectured that 86 is the largest  $n$  for which the decimal expansion of  $2^n$  contains no 0.  $86 = (8 \times 6 = 48) + (4 \times 8 = 32) + (3 \times 2 = 6) \dots$

### 109 (number)

$(-1)^{n+1} = 0.00917431 \dots$  } The decimal expansion of  $1/109$  has 108 digits, making 109 a full reptend prime in decimal. The last six digits of the 108-digit...

### Square root of 10

digits of its decimal expansion are:

3.162277660168379331998893544432718533719555139325216826857504... (sequence A010467 in the OEIS) The decimal digits of...

### Normal number

Consider the infinite digit sequence expansion  $S_x, b$  of  $x$  in the base  $b$  positional number system (we ignore the decimal point). We say that  $x$  is simply normal...

### 68 (number)

OEIS Foundation. Sloane, N. J. A. (ed.). "Sequence A032510 (Scan decimal expansion of  $\pi$  until all  $n$ -digit strings have been seen;  $a(n)$  is last string...

### Pi

$\{\frac{22}{7}\}$  are commonly used to approximate it. Consequently, its decimal representation never ends, nor enters a permanently repeating pattern....

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