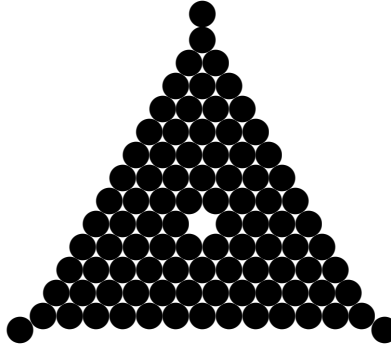


93 Ninety-Three XCIII



Corresponding ordinal: ninety-third.

The number 93 is the forty-seventh odd number and the sixty-eighth composite number.

As a product of primes: $93 = 3 \cdot 31$.

The number 93 has four divisors: 1, 3, 31, 93.

The number 93 is the seventy-first deficient number: $s(93) = 1 + 3 + 31 = 35 < 93$.

As a sum of four or fewer squares: $93 = 2^2 + 5^2 + 8^2 = 2^2 + 2^2 + 2^2 + 9^2 = 2^2 + 2^2 + 6^2 + 7^2 = 2^2 + 3^2 + 4^2 + 8^2 = 4^2 + 4^2 + 5^2 + 6^2$.

As a sum of nine or fewer cubes: $93 = 5 \cdot 1^3 + 3 \cdot 2^3 + 4^3 = 4 \cdot 1^3 + 2^3 + 3 \cdot 3^3 = 2 \cdot 1^3 + 3^3 + 4^3$.

As a difference of two squares: $93 = 47^2 - 46^2$.

The number 93 appears in four Pythagorean triples:

[93, 124, 155], [93, 476, 485], [93, 1440, 1443], [93, 4324, 4325].

The second and fourth are primitive.

As the sum of three odd primes: $93 = 3 + 7 + 83 = 3 + 11 + 79 = 3 + 17 + 73 = 3 + 19 + 71 = 3 + 23 + 67 = 3 + 29 + 61 = 3 + 31 + 59 = 3 + 37 + 53 = 3 + 43 + 47 = 5 + 5 + 83 = 5 + 17 + 71 = 5 + 29 + 59 = 5 + 41 + 47 = 7 + 7 + 79 = 7 + 13 + 73 = 7 + 19 + 67 = 7 + 43 + 43 = 11 + 11 + 71 = 11 + 23 + 59 = 11 + 29 + 53 = 11 + 41 + 41 = 13 + 13 + 67 = 13 + 19 + 61 = 13 + 37 + 43 = 17 + 17 + 59 = 17 + 23 + 53 = 17 + 29 + 47 = 19 + 31 + 43 = 19 + 37 + 37 = 23 + 23 + 47 = 23 + 29 + 41 = 31 + 31 + 31$.

There are 93 five-digit *prime palindromes*, that is, prime numbers which read the same

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forwards and backwards. They range from 10301 to 98689.

The first 93 digits of $93!$ form a prime number. That number is 1156 772 507 081 641 574 759 205 162 306 240 436 214 753 229 576 413 535 186 142 281 213 246 807 121 467 315 215 203 289 51.

The number 93 is the eighth *cake number*, the maximum number of pieces you can split a potato into with eight cuts.

Ninety-three was the last novel of Victor Hugo. The title refers to the year 1793.

At age 93, Strom Thurmond was reelected to the Senate.

The number 93 is the common numerical value of the Greek words for *will* and for *love*, $\theta\epsilon\lambda\eta\mu\alpha$ and $\alpha\gamma\alpha\pi\eta$. *Thelema* ($\theta\epsilon\lambda\eta\mu\alpha$) is a religious philosophy developed by Aleister Crowley. The number 93 plays a central role in this tradition, and is used as a greeting.