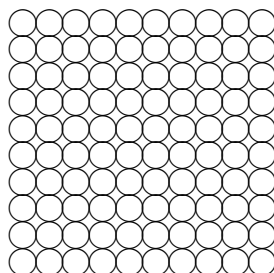


100 One Hundred C



Corresponding ordinal: one hundredth.

The number 100 is the fifty-first even number and the seventy-fourth composite number.

As a product of primes: $100 = 2^2 \cdot 5^2$.

The number 100 has nine divisors: 1, 2, 4, 5, 10, 20, 25, 50, 100.

The number 100 is the twenty-second abundant number: $s(100) = 1 + 2 + 4 + 5 + 10 + 20 + 25 + 50 = 117 > 100$.

This is our final abundant number, but not the last abundant number in the universe. Any multiple of an abundant number is abundant, so the numbers 100, 200, 300, 400, 500, ... are all abundant.

The number 100 is the eleventh square number: $100 = 10^2$.

As the sum of two triangular numbers: $100 = 45 + 55$.

As a sum of four or fewer squares: $100 = 10^2 = 6^2 + 8^2 = 1^2 + 1^2 + 7^2 + 7^2 = 1^2 + 3^2 + 3^2 + 9^2 = 1^2 + 5^2 + 5^2 + 7^2 = 2^2 + 4^2 + 4^2 + 8^2 = 5^2 + 5^2 + 5^2 + 5^2$.

As a sum of nine or fewer cubes: $100 = 4 \cdot 1^3 + 4 \cdot 2^3 + 4^3 = 3 \cdot 1^3 + 2 \cdot 2^3 + 3 \cdot 3^3 = 1^3 + 2^3 + 3^3 + 4^3$

As a sum of two odd primes: $100 = 3 + 97 = 11 + 89 = 17 + 83 = 29 + 71 = 41 + 59 = 47 + 53$.

The number 100 appears in nine Pythagorean triples:

[28, 96, 100] [60, 80, 100] [75, 100, 125] [100, 105, 145] [100, 240, 260]
[100, 495, 505] [100, 621, 629] [100, 1248, 1252] [100, 2499, 2501]

The seventh and the ninth are primitive.

The number 100 is the sum of the first nine primes: $2 + 3 + 5 + 7 + 11 + 13 + 17 + 19 + 23$.

2 Chapter 100 One Hundred C

The number 100 is the sum of the first four cubes: $1^3 + 2^3 + 3^3 + 4^3$.

The number 100 is divisible by the number of primes less than it.

There are 100 primes with distinct digits occurring in ascending order, like 4567 and 23459. (Prime Curios) The largest two are 12356789 and 23456789.

The number 100 is the first number lexicographically if written as a Roman numeral. (Number Gossip)

There are 100 members of United States Senate, two from each of the 50 states.

A dollar is 100 cents. A dollar is also 8 bits: “Two bits, four bits, six bits, a dollar; All for our book, stand up and holler.”

A century is 100 years.

The boiling point of water is 100 degrees Celsius.

The prefix for a 100th is “centi-”, as in centimeter, centiliter, etc.

The prefix for 100 is also “centi-”, as in centipede.

Polish draughts, a popular variant of checkers, is played on a board with 100 squares.

