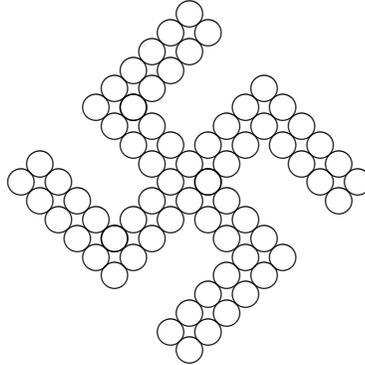


68 Sixty-Eight LXVIII



Corresponding ordinal: sixty-eighth.

The number 68 is the thirty-fifth even number and the forty-eighth composite number.

As a product of primes: $68 = 2^2 \cdot 17$.

The number 68 has six divisors: 1, 2, 4, 17, 34, 68.

The number 68 is the fifty-third deficient number: $s(68) = 1+2+4+17+34 = 58 < 68$.

The number 68 is the second swastika number, as you can see. The first swastika number is 17, the next one is $3^2 \cdot 17 = 153$.

As a sum of four or fewer squares: $68 = 2^2 + 8^2 = 4^2 + 4^2 + 6^2 = 1^2 + 3^2 + 3^2 + 7^2 = 3^2 + 3^2 + 5^2 + 5^2$.

As a sum of nine or fewer cubes: $68 = 4 \cdot 1^3 + 4^3 = 6 \cdot 1^3 + 2^3 + 2 \cdot 3^3 = 1^3 + 5 \cdot 2^3 + 3^3$.

As a sum of two odd primes: $68 = 7 + 61 = 31 + 37$. It is the largest number that is the sum of two odd primes in exactly two different ways. (Prime Curios) This must be the largest *known* number.

The number 68 appears in five Pythagorean triples: $[32, 60, 68]$, $[51, 68, 85]$, $[68, 285, 293]$, $[68, 576, 580]$, $[68, 1155, 1157]$. The third and the last are primitive.

The number 68 is the smallest composite number that becomes a prime by turning it upside down. It looks like 116 is the next one.

The string "68" is the two-digit string that shows up last in the decimal expansion of π . (Erich Friedman) It first appears starting at position 605 after the decimal point. Its next occurrence starts at position 653.

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At age 68, William Henry Harrison was inaugurated as President of the United States.

The number 68 is a popular caliber paintball marker for paintball guns.

Robert Schumann's opus 68, *Album for the young*, is a very popular collection of short piano pieces composed for young people.

"Her 68" is a sexual position, something to do with being one short of 69. It's not clear how well established this usage is, but it spices up an otherwise dull number.