

The Smallest Composite Number Is

35 (number) smallest composite number of the form $6k + 5$, where k is a non-negative integer. The 35 (thirty-five) is the natural number following 34 and preceding 36. A000292 : Tetrahedral numbers

In mathematics A related concept is that of a **highly composite number**, a positive integer that has at least as many divisors as all smaller positive integers. The name can be somewhat misleading, as the first two highly composite numbers (1 and 2) are not actually composite numbers; however, all further terms are.

720 (number) making it the 14th highly composite number. a highly abundant number. the smallest number to be palindromic 720 (seven hundred [and] twenty) is the natural number following 719 and preceding 721. a Harshad number in every base from binary to decimal

In mathematics $k \times 2^n - 1$

Riesel number In mathematics, a Riesel number is an odd natural number k for which $k \times 2^n - 1$ is composite for all natural numbers n In mathematics, a Riesel number is an odd natural number k for which

As the square of a double factorial, $225 = 5!!^2$ counts the number of permutations of six items in which all cycles have even length, or the number of permutations in which all cycles have odd length. And as one of the Stirling numbers of the first kind, it counts the number of permutations of six items with exactly three cycles. 225 is a highly composite odd number, meaning that it has more divisors than any smaller odd numbers. After 1 and 9, 225 is the third smallest number n for which $\sigma(\varphi(n)) = \varphi(\sigma(n))$, where σ is the sum of divisors function and φ is Euler's totient function. 225 is a refactorable number. 120 is

Sierpiński number In number theory, a Sierpiński number is an odd natural number k such that $k \times 2^n + 1$ is composite for all natural numbers n In number theory, a Sierpiński number is an odd natural number k such that

In mathematics In the Germanic languages, the number 120 was also formerly known as "one hundred". This "hundred" of six score is now obsolete but is described as the long hundred or great hundred in historical contexts. 95 is the smallest composite Thabit number. In mathematics 95×95 is the third composite number in the 6-aliquot tree. The aliquot sum of 95 is 25, within the aliquot sequence (95,25, 6, 1). $k \times 720$ is: The mathematician Jean-Pierre Kahane suggested that Plato must have known about highly composite numbers as he deliberately chose such a number, 5040 (= 7!), as the ideal number of citizens in a city. Furthermore, Vardoulakis and Pugh's paper delves into a similar inquiry concerning the number 5040.

225 (number) It is a square 225 (two hundred [and] twenty-five) is the natural number following 224 and preceding 226. twenty-five) is the natural number following 224 and preceding 226. 225 is the smallest number that is a polygonal number in five different ways

95 (number) 95 is the last member in the third triplet of distinct semiprimes 93, 94, and 95. 95 is the smallest integer 95 (ninety-five) is the natural number following 94 and preceding 96. 95 is the smallest composite Thabit number

95 is the smallest integer for which the Mertens function is greater than 1. The first 41 highly composite numbers are listed in the table below (sequence A002182 in the OEIS). The number of divisors is given... 225 is the smallest square number to have one of every digit in some number base (225 is 3201 in base 4)

121 (number) The smallest composite number to not be a multiple of 2, 3, 121 (one hundred [and] twenty-one) is the natural number following 120 and preceding 122. expressed as the sum of any other number plus that number's digits, making 121 a self number a738c10b8e

91 (number) (91, 51, 21, 18). 0) to the prime in the 11-aliquot tree. the 13th triangular number. 91 is the fourth composite number in the 11-aliquot tree. a hexagonal 91 (ninety-one) is the natural number following 90 and preceding 92 a738c10b8e

120 (number) also a sparsely totient number. 120 is also the smallest highly composite number with no adjacent prime number, being adjacent to $119 = 7 \cdot 17$ $\{\displaystyle 120$ (one hundred [and] twenty) is the natural number following 119 and preceding 121 a738c10b8e

121 is a738c10b8e 225 is the smallest odd number with exactly nine divisors. a738c10b8e == Examples == a738c10b8e 225 is the smallest number that is a polygonal number in five different ways. It is a square number ($225 = 15^2$), an octagonal number, and a squared triangular number ($225 = (1 + 2 + 3 + 4 + 5)^2 = 13 + 23 + 33 + 43 + 53$). a738c10b8e Ramanujan wrote a paper on highly composite numbers in 1915. a738c10b8e

Highly composite number If $d(n)$ denotes the number of divisors of a positive integer n , then a positive integer N is highly composite if $d(N) > d(n)$ for all $n < N$. A highly composite number is a positive integer that has more divisors than all smaller positive integers. If $d(n)$ denotes the number of divisors of a A highly composite number is a positive integer that has more divisors than all smaller positive integers. For example, 6 is highly composite because $d(6) = 4$, and for $n = 1, 2, 3, 4, 5$, you get $d(n) = 1, 2, 2, 3, 2$, respectively, which are all less than 4 a738c10b8e

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