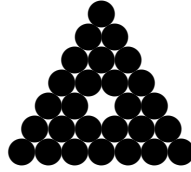


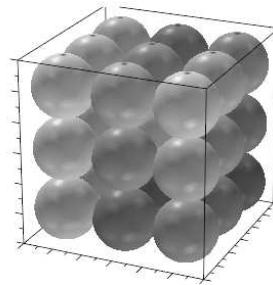
27 Twenty-Seven XXVII



Corresponding ordinal: twenty-seventh.

The number 27 is the fourteenth odd number and the seventeenth composite number.

The number 27 is the fourth cubic number since $27 = 3^3$ and the smaller cubic numbers are 0, 1, and 8.



As a product of primes: $27 = 3^3$.

The number 27 has four divisors: 1, 3, 9, 27.

The number 27 is the twenty-second deficient number: $s(27) = 1 + 3 + 9 = 13 < 27$.
It is not hard to show that any power of a prime is deficient.

As the sum of four or fewer squares: $27 = 1^2 + 1^2 + 5^2 = 3^2 + 3^2 + 3^2 = 1^2 + 1^2 + 3^2 + 4^2$.

The number 27 is the smallest number that is the sum of three nonzero squares in two different ways.

As the sum of nine or fewer cubes: $27 = 3^3 = 3 \cdot 1^3 + 3 \cdot 2^3$.

As a difference of two squares: $27 = 6^2 - 3^2 = 14^2 - 13^2$.

The number 27 occurs in three Pythagorean triples: [27, 36, 45], [27, 120, 123], [27, 364, 365].
The last is primitive.

As a sum of three odd primes: $27 = 3 + 5 + 19 = 3 + 7 + 17 = 3 + 11 + 13 = 5 + 5 + 17$
 $= 5 + 11 + 11 = 7 + 7 + 13$.

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The number 27 is a punctured triangular number as you can see in the diagram above. Note that the missing circle is the orthocenter of the triangle—the point where the altitudes meet.

The number 27 is the largest number that is equal to the sum of the digits of its cube: $27^3 = 19\,683$. The others are 1, 8, 17, 18, and 26.

The number 27 is the only cube that is one less than an even perfect number.

The twenty-seventh President of the United States was William Howard Taft.

The twenty-seventh state to enter the Union was Florida.

The twenty-seventh largest state in the United States is New York.

The Constitution of the United States has 27 amendments. Amendment XXVII, ratified May 7, 1992: “No law, varying the compensation for the services of the Senators and Representatives, shall take effect, until an election of Representatives shall have intervened.”

In a perfect game, a pitcher faces 27 batters.

In the UK, Australia, and New Zealand, bingo (housie) cards consist of 27 rectangles containing numbers from 1 to 90, like this one:

5				49		63	75	80
		28	34		52	66	77	
6	11				59	69		82

There are 27 books in the New Testament. The twenty-seventh is the *Book of Revelation*.