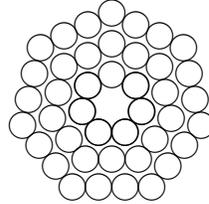# 42 Forty-Two XLII



Corresponding ordinal: forty-second.

The number $42$ is the twenty-second even number and the twenty-eighth composite number.

As a product of primes: $42 = 2 \cdot 3 \cdot 7$.

The number $42$ has eight divisors: $1, 2, 3, 6, 7, 14, 21, 42$.

The number $42$ is the eighth abundant number: $s(42) = 1 + 2 + 3 + 6 + 7 + 14 + 21 = 54 > 42$. Notice that $42$ is a proper multiple of $6$, a perfect number, and recall that every proper multiple of a perfect number is abundant.

As a sum of four or fewer squares: $42 = 1^2 + 4^2 + 5^2 = 1^2 + 1^2 + 2^2 + 6^2 = 1^2 + 3^2 + 4^2 + 4^2 = 2^2 + 2^2 + 3^2 + 5^2$.

As the sum of nine or fewer cubes: $42 = 2 \cdot 1^3 + 5 \cdot 2^3 = 7 \cdot 1^3 + 2^3 + 3^3$.

The number $42$ appears in four Pythagorean triples: $[40, 42, 58]$, $[42, 56, 70]$, $[42, 144, 150]$, $[42, 440, 442]$. None of these are primitive because $42$ is twice an odd number.

As a sum of two odd primes: $42 = 5 + 37 = 11 + 31 = 13 + 29 = 19 + 23$.

The number $42$ is the average of the twin primes $41$ and $43$. Moreover, $4241$ and $4243$ are also twin primes.

The forty-second President of the United States was Bill Clinton.

At age $42$, Theodore Roosevelt was inaugurated as President of the United States. He was the youngest person ever to serve as President.

The forty-second state to enter the Union was Washington.

The forty-second largest state in the United States is Maryland.

There are $42$ eyes in a deck of playing cards: 3 two-eyed kings, 1 one-eyed king, 4 two-eyed queens, 2 two-eyed jacks, and 2 one-eyed jacks. That gives 21 eyes, but each face

appears twice on its card. (Number freak)

Jackie Robinson wore number 42 for the Brooklyn Dodgers.

Elvis Presley died at age 42.

In *The Hitchhiker's Guide to the Galaxy*, the answer to the ultimate question of life, the universe and everything is 42.