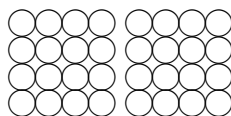


32 Thirty-Two XXXII



Corresponding ordinal: thirty-second.

The number 32 is the seventeenth even number and the twentieth composite number.

As a product of primes: $32 = 2^5$.

The number 32 has six divisors: 1, 2, 4, 8, 16, 32.

The number 32 is the twenty-fifth deficient number: $s(32) = 1 + 2 + 4 + 8 + 16 = 31$.

Notice that $32 = 2^5$, which is a power of a prime, so it must be deficient.

As the sum of four or fewer squares: $32 = 4^2 + 4^2$.

As the sum of nine or fewer cubes: $32 = 5 \cdot 1^3 + 3^3 = 4 \cdot 2^3$.

The number $32 = 2^5$ is the fifth power of 2.

As a difference of two squares: $32 = 6^2 - 2^2 = 9^2 - 7^2$.

The number 32 appears in four Pythagorean triples: [24, 32, 40], [32, 60, 68], [32, 126, 130], [32, 255, 257]. The last one is primitive.

As the sum of two odd primes: $32 = 3 + 29 = 13 + 19$.

The number 32 is equal to $2^4 + 4^2$.

The number 32 is equal to $1^1 + 2^2 + 3^3$.

The number 32 is the smallest number that is the totient of exactly seven numbers: 51, 64, 68, 80, 96, 102, 120. The next such number is 132.

The number 32 is possibly the highest power of 2 with all prime digits. (Number Gossip)

There are 32 fluid ounces to the quart, 32 gills to the gallon, 32 dry quarts to the bushel, and 32 ells to the bolt.

The thirty-second President of the United States was Franklin Delano Roosevelt.

The thirty-second state to enter the Union was Minnesota.

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The thirty-second largest state in the United States is Mississippi.

The freezing point of pure water at sea level is 32° F.

The acceleration of gravity on the surface of the Earth is about 32 feet per second per second.