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a magic square is a square grid of numbers where each row column and diagonal add up to the same total find the magic constant sum of each row column and diagonal with where n is the number of squares in each row use a solving technique based on the size of the magic square and how many boxes are in each row or column

magic square wikipedia

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semi magic square when its rows and columns sum to give the magic constant simple magic square when its rows columns and two diagonals sum to give magic constant and no more they are also known as ordinary magic squares or normal magic squares

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$m \times n$ $n^2 - 1$ this is the formula for a magic square that is used to make magic squares of different orders if we subtract each number from $n^2 - 1$ we get another magic square and this is called the complementary magic square

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find the magic constant sum of each row column and diagonal with where n is the number of squares in each row use a solving technique based on the size of the magic square and how many boxes are in each row or column

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magic squares were first mentioned in the western world in the work of theon of smyrna they were also used by arab astrologers in the 9th century to help work out horoscopes the work of the greek mathematician moschopoulos in 1300 a d help to spread knowledge about magic squares so here we are now more than 700 years later and teachers

magic square from wolfram mathworld

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a magic square is a square array of numbers consisting of the distinct positive integers 1 2 arranged such that the sum of the numbers in any horizontal vertical or main diagonal line is always the same number kraitchik 1942 p 142

andrews 1960 p 1 gardner 1961 p 130 madachy 1979 p 84 benson and jacoby 1981 p 3 ball an

magic square calculator

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the rows columns and diagonals of a normal magic square sum to the same value the sum result is the magic constant m and its value depends on the order n of the magic square $m = \frac{n^2 + 1}{2} \cdot n$ for $n = 3$ we have $m = 15$ for $n = 4$ we have $m = 34$ and so on

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a standard magic square of any given number contains the sequence of natural numbers from 1 to the square of that number thus the magic square of 3 contains the numbers 1 to 9 if these nine numbers are simply listed in three rows or three columns they form the natural square of 3

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a basic introduction to magic squares can be found here magic squares have intrigued people for thousands of years and in ancient times they were thought to be connected with the supernatural and hence magical today we might still think of them as being magical for the sum of each row column and diagonal is a constant the magic constant

magic square definition illustrated mathematics dictionary

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illustrated definition of magic square a square filled with numbers so that the total of each row each column and each main diagonal are all the same

magic squares university of utah

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magic squares a magic square is a $n \times n$ grid of numbers such that the sum of each row is equal and equal to the sum of each column some definitions also require the sum along the main diagonals to add to the same total perfect magic square is a $n \times n$ square in which each of the entries 1 to n^2 is used exactly once and one in which the sum

magic square properties of the game

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the subtraction law of magic square describes that when you subtract with same number to the numbers present in primary or standard or derived magic square puzzle the result will be a magic square with a new magic constant this can be illustrated with the figure below multiplication law

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noun a square containing a number of integers arranged so that the sum of the numbers is the same in each row column and main diagonal and often in some or all of the other diagonals illustration of magic square magic squares examples of magic square in a sentence

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technical chemistry gas laws magic square you must show our work in the square name a sample of neon gas occupies a volume of 2.8 l at 1.8 atm what would its volume be if a sample of argon has a volume of 0.43 ml at 24 °C at what temperature in degrees celsius will it have a volume of 0.57 ml what is the starting volume of a 24.71 gas sample that

magic cube wikipedia

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in mathematics a magic cube is the 3 dimensional equivalent of a magic square that is a collection of integers arranged in an $n \times n \times n$ pattern such that the sums of the numbers on each row on each column on each pillar and on each of the four main space diagonals are equal the so called magic constant of the cube denoted $m^3 n$

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