

## MAGIC SQUARES-1

### Magic squares 3x3

The arrangement of numbers in the squares of a square that fulfill the fact that the sum of each of their rows, of each of their columns and each of the two diagonals is the same one, are called **magic squares**.

Due to their special relations, from time immemorial they have intrigued men and, in many cultures, they have been considered like something supernatural and mysterious: the priests of Old Egypt used them to read the future; at the Medieval times they were used as talismans and also to make horoscopes. Nowadays, apart from being used in some techniques of sampling, they are a continuous source of inspiration in Arts and in Architecture and, in all times, they have been aim of analysis and used as entertainment.

|    |    |    |    |
|----|----|----|----|
| 3  | 2  | 15 | 14 |
| 13 | 16 | 1  | 4  |
| 10 | 11 | 6  | 7  |
| 8  | 5  | 12 | 9  |

In the square of 9 squares, **distribute** numbers from 1 to 9 to get a magic square.

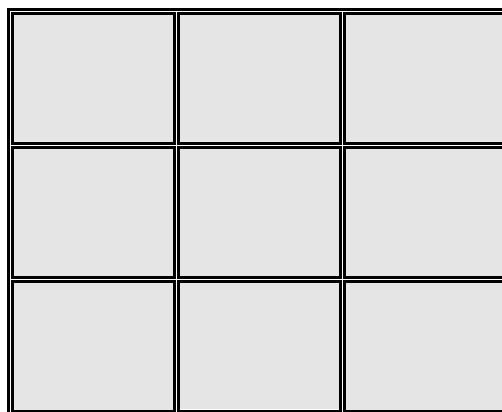
Before you start moving the counters it will be helpful to you to solve these questions:

~~Q1~~ How much they make all the numbers you have to place?

~~Q2~~ How much must they make then each row, each column and each of its two diagonals? This number is known as 'constant of the magic square 3x3'.

~~Q3~~ Which number do you think that should have to be placed in the central square?

**I dare you to build it!**



**YOU WILL NEED:**

A board of game 3x3 and the counters with the numbers from 1 to 9.