

MAGIC SQUARES

In a magic square, the total of every row, column and diagonal is the same. Check this for the first magic square, and then complete the others:

11	3	10
7	8	9
6	13	5

		10
	7	
4		5

14	3	
		13
8	15	

11	1	
9		7
	15	5

Now complete these 4x4 magic squares:

1	15	14	4
12		7	
8	10	11	
			16

21		23	18
25	16	15	28
	12		32
9	34	35	

1	14	7	
15	4		6
10		16	
			13

Use the numbers 1 to 9 to make your own magic square:

Complete this 3x3 magic square: (You will need negative numbers)

4		
0	0	0

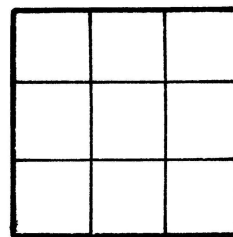
▲ and ● both stand for numbers. Work out which numbers they stand for and complete the magic squares:

▲ + 10		
8	10	12
		▲

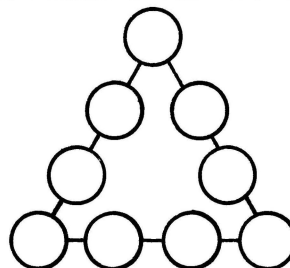
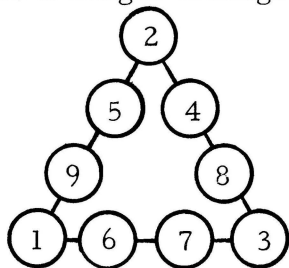
● + 7	●	● + ▲
	6	
▲		

Here is an ANTI-MAGIC square. It is anti-magic because all the totals of the rows, columns and diagonals are different. Use the numbers 1 to 9 to make a different anti-magic square.

9	8	7	→ 24
2	1	6	→ 9
3	4	5	→ 12
↓ 14	↓ 13	↓ 18	↘ 15



Here is a magic triangle: use the numbers 1 to 9 to make a different one.



This is the only magic hexagon known.

Use the numbers from 1 to 19 to complete it.

