

Introducing Magic Squares

The first grid is not a magic square. Change some of the numbers so that the sum of each row, column and diagonal is the same number. Change no more than two numbers.

1

			18
2	1	5	8
9	6	3	18
7	8	10	25
18	15	18	18

2

			21
6	12	3	21
3	7	8	18
11	2	8	21
20	21	19	21

3

			27
8	11	5	24
6	9	12	27
13	5	10	28
27	25	27	27

Adding Magic Squares

A		
	9	
	7	3
6	5	

+

B		
12		
13	11	
	15	10

=

A + B		
16		
		12

A + B		
		12

+

C		
9		7
4		8
		3

=

(A + B) + C		

B		
12		
13	11	
	15	10

+

C		
9		7
4		8
		3

=

B + C		

A		
	9	
	7	3
6	5	

+

B + C		
		17

=

A + (B + C)		

Subtracting Magic Squares

A

25	24	29
	26	
	28	27

B

16	17	
	15	19
		14

A - B

5		

A - B

5		

C

6		
2	9	4

(A - B) - C

B

16	17	
	15	19
		14

C

6		
2	9	4

B - C

	10	

A

25	24	29
	26	
	28	27

B - C

	10	

A - (B - C)

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Make a Magic Square

Use each of the given numbers once to create a magic square.

1 1, 2, 3, 4, 5, 6, 7, 8, 9

2 3, 4, 5, 6, 7, 8, 9, 10, 11

3 6, 7, 8, 9, 10, 11, 12, 13, 14

4 1, 3, 5, 7, 9, 11, 13, 15, 17

Working Backward and Forward

Complete the magic squares.

1

21		
		28
	14	

 $\div 7 =$

3		5
		9

126

2

		10
15		
	5	

 $\times 2 =$

80		60

3

24		
40		

 $\div 4 =$

		4
5		
	3	

4

4		
		2
	6	

 $\times 5 =$

40		80