

REMEMBER HOW TO CONSTRUCT AN 8 X 8 MAGIC SQUARE?

ADD THE ROWS, COLUMNS AND DIAGONALS TO PROVE THAT EACH EQUALS 260

USE THE PAIRING OF 10s TO MAKE THIS JOB EASIER

The method for constructing magic squares of even numbered grids (divisible by 4) is to draw diagonals through each 4x4 subsquare and fill all squares in sequence. Then replace each entry on a crossed-off diagonal by or, equivalently, reverse the order of the crossed-out entries. Thus in the below example , the crossed-out numbers are originally 1, 4, ..., 61, 64, so entry 1 is replaced with 64, 4 with 61, etc.

CAN YOU FIND ADDITIONAL PATTERNS IN THIS EXTRAORDINARY MAGIC SQUARE?

64	2	3	61	60	6	7	57
9	55	54	12	13	51	50	16
17	47	46	20	21	43	42	24
40	26	27	37	36	30	31	33
32	34	35	29	28	38	39	25
41	23	22	44	45	19	18	48
49	15	14	52	53	11	10	56
8	58	59	5	4	62	63	1

DID YOU NOTICE  
DIAGONALS THAT WERE  
SEPERATED BY 7s AND  
9s?

64	2	3	61	60	6	7	57
9	55	54	12	13	51	50	16
17	47	46	20	21	43	42	24
40	26	27	37	36	30	31	33
32	34	35	29	28	38	39	25
41	23	22	44	45	19	18	48
49	15	14	52	53	11	10	56
8	58	59	5	4	62	63	1

DID YOU FIND THAT ALL OF  
THESE 2 X 2 SQUARES HAVE A  
SUM OF 130 WHICH IS HALF OF  
THE FULL ROW, COLUMN,  
DIAGONAL SUM OF 260?

ALSO, SEE THE SUM OF 130 IN  
EVERY 2 X 2 SQUARE NOT  
HIGHLIGHTED.