



Prime Magic Square Puzzles: Based on 5 by 5 magic squares with all prime number entries

Kermit Rose

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The puzzles in this book are based on 5 by 5 pandiagonal magic squares. A pandiagonal magic square has 20 sums to the same number. Each row, each column, each of 5 downward diagonals, and each of 5 upward diagonals sum to the same number, called the magic sum. The four following charts show the 5 rows, the 5 columns, the 5 downward diagonals, and the 5 upward diagonals. The rows, columns, and diagonals will be illustrated using the following magic square. Incidentally, all entries in this magic square are prime integers.

5 103 16067 19 1493 17 1489 17 101 16063 113 16061 13 1487 13 1483 11 109 16073 11 16069 23 1481 7 107

The 5 rows: 1 1 1 1 1 2 2 2 2 2 3 3 3 3 3 4 4 4 4 4 5 5 5 5 5 The top row sum is $5 + 103 + 16067 + 19 + 1493 = 17687$. The second row sum is $17 + 1489 + 17 + 101 + 16063 = 17687$. The third row sum is $113 + 16061 + 13 + 1487 + 13 = 17687$. The fourth row sum is $1483 + 11 + 109 + 16073 + 11 = 17687$. The fifth row sum is $16069 + 23 + 1481 + 7 + 107 = 17687$.

The 5 columns: 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 The first column sum is $5 + 17 + 113 + 1483 + 16069 = 17687$. The second column sum is $103 + 1489 + 16061 + 11 + 23 = 17687$. The third column sum is $16067 + 17 + 13 + 109 + 1481 = 17687$. The fourth column sum is $19 + 101 + 1487 + 16073 + 7 = 17687$. The fifth column sum is $1493 + 16063 + 13 + 11 + 107 = 17687$. Four of the downward diagonals and four of the upward diagonals are broken diagonals. They wrap around the edges of the square as shown in the following two diagrams.

The 5 downward diagonals: 1 2 3 4 5 5 1 2 3 4 4 5 1 2 3 3 4 5 1 2 2 3 4 5 1 The first downward diagonal sum is $5 + 1489 + 13 + 16073 + 107 = 17687$. The second downward diagonal sum is $103 + 17 + 1487 + 11 + 16069 = 17687$. The third downward diagonal sum is $16067 + 101 + 13 + 1483 + 23 = 17687$. The fourth downward diagonal sum is $19 + 16063 + 113 + 11 + 1481 = 17687$. The fifth downward diagonal sum is $1493 + 17 + 16061 + 109 + 7 = 17687$.

The 5 upward diagonals: 5 4 3 2 1 4 3 2 1 5 3 2 1 5 4 2 1 5 4 3 1 5 4 3 2 The first upward diagonal sum is $16069 + 11 + 13 + 101 + 1493 = 17687$. The second upward diagonal sum is $1483 + 16061 + 17 + 19 + 107 = 17687$. The third upward diagonal sum is $113 + 1489 + 16067 + 19 + 1493 = 17687$. The fourth upward diagonal sum is $17 + 103 + 1481 + 16073 + 13 = 17687$. The fifth upward diagonal sum is $5 + 23 + 109 + 1487 + 16063 = 17687$. Each puzzle has from 10 to 15 of the solution entries marked out. Your task is to fill in the marked out numbers to recreate the magic square that has only prime number entries.

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