

Badische Landesbibliothek Karlsruhe

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The young man's book of amusement

Halifax, 1848

Tabelle: Magic square

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Magic Square.

11	24	7	20	3
4	12	25	8	16
17	5	13	21	9
10	18	1	14	22
23	6	19	2	15

Suppose a square of cells, whose root is uneven, for instance, 7, and that its 49 cells are to be filled magically with numbers, for instance, the first 7, on the one side take the first seven numbers, beginning with unity and ending with the root 7, and on the other 7 and all its multiples to 49 exclusively; and as these only make six numbers, add 8, which makes this an arithmetical progression of seven terms as well as the other, 0, 7, 14, 21, 28, 35, 42. This done with the first progression repeated, fill the square of the root 7 magically: in order to do this, write in the first seven cells of the first horizontal rank the seven numbers proposed, in what order you please, for that is perfectly indifferent; and it is proper to observe here, that those seven numbers may be ranged in 5040 different manners in the same rank. The order in which they are placed in the first horizontal rank, be what it will, is that which determines their order in all the rest. For the second horizontal rank, place in its first cell either the third, the fourth, the fifth, or the sixth number, from the first number of the first rank, and after that write the six others in order as they follow. For the third horizontal