MAGISCHE QUADRATE

**Beispiel:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 2 | 7 | 6 | | --- | --- | --- | | 9 | 5 | 1 | | 4 | 3 | 8 |     Ein solches Quadrat heisst magisch. | In diesem Quadrat hat jede Zeile die Summe 15  Auch jede Spalte hat die Summe 15  Und auch jede Diagonale hat die Summe 15 | |  |  |  | | --- | --- | --- | |  |  |  | |  |  |  |  |  |  |  | | --- | --- | --- | |  |  |  | |  |  |  |  |  |  |  | | --- | --- | --- | |  |  |  | |  |  |  | |

A 3 P.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bestimme die Summe der obersten Zeile und schreibe sie in den Kreis.  Fülle die leeren Felder so, dass das Quadrat  magisch wird. | | 8 | 23 | 20 | | --- | --- | --- | |  |  |  | |  | 11 |  | |

B 3 P.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bestimme die Summe in der hintersten Spalte und schreibe sie in den Kreis.  Fülle die leeren Felder so, dass das Quadrat magisch wird. | |  |  | 2550 | | --- | --- | --- | | 4050 |  | 50 | |  |  | 3550 | |

C 3 P.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Dividiere jede Zahl des Quadrates durch 4 und schreibe das Ergebnis in das rechte Quadrat.  Überprüfe, ob das rechte Quadrat auch magisch ist. | | 20 | 70 | 60 | | --- | --- | --- | | 90 | 50 | 10 | | 40 | 30 | 80 | | :4 | |  |  |  | | --- | --- | --- | |  |  |  | |  |  |  |   … … …  Spaltensumme | Zeilensumme  …  …  …    …  Diagonalen-summe |

D 3 P.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Die Zahlen im rechten Quadrat sind fünfmal so gross wie die Zahlen des gleichen Feldes im linken Quadrat.  Fülle die leeren Felder so, dass die beiden Quadrate magisch sind. | **🞄5**   | 7 |  |  | | --- | --- | --- | | 6 |  |  | |  |  |  | | |  |  | 25 | | --- | --- | --- | |  |  |  | | 55 |  |  | |

**:5**