

Sudokus

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | | | | 6 | | 1 | 1 | 5 |
| | 5 | | 1 | | 4 | | 3 | |
| 1 | | 2 | | | | 4 | | 7 |
| | 7 | 1 | | 4 | 1 | | 9 | |
| 2 | | | 6 | | 9 | | | 1 |
| | 6 | 1 | | 3 | 1 | | 2 | |
| 8 | 1 | 3 | | | | 7 | 1 | 9 |
| | 2 | 1 | 3 | | | 1 | | |



So knackst du sie!

18 Sudoku-Rätsel
mit Lösungen

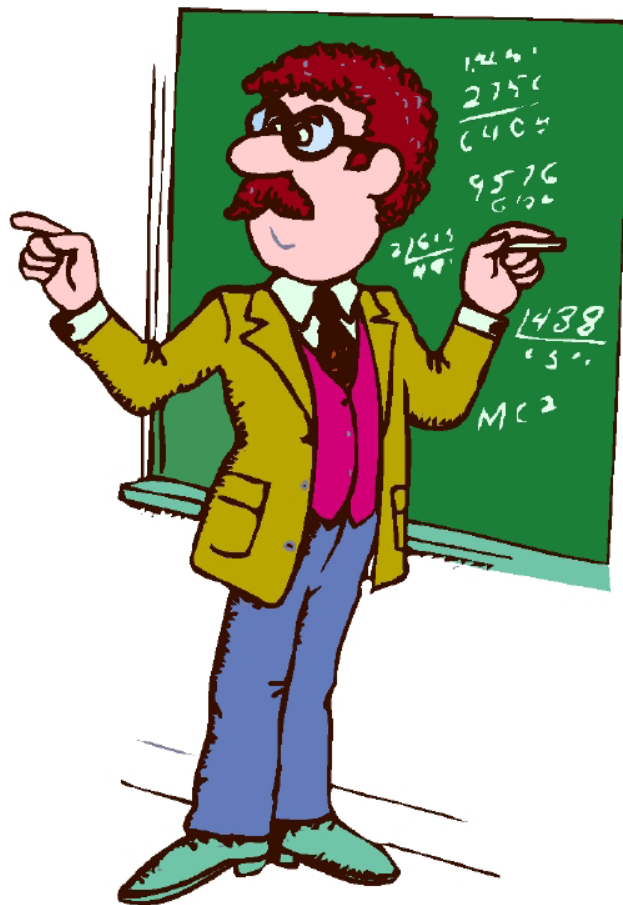


Lernen mit Erfolg

KOHL VERLAG

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So »knackst« du Sudokus

Bei einem Sudoku müssen 81 Felder mit den Zahlen von 1 bis 9 gefüllt werden. In jeder Zeile, jeder Spalte und in jedem der 9 einzelnen Quadrate dürfen die Ziffern von 1 bis 9 jeweils nur einmal vorkommen.

Nun gibt es zur Lösung von Sudokus unterschiedliche Strategien, die man z. B. im Internet nachlesen kann. Eine Methode, die zu 80 % erfolgreich ist und meistens zur Lösung führt, soll hier an einem Beispiel vorgestellt werden, die sogenannte Mark-2-Methode.

Nacheinander geht man die Zahlen 1 bis 9 durch und notiert in jedem der 9 Einzelquadrate immer nur die Zahlen, die einmal oder genau zweimal auftauchen können. Sollten sie z. B. an drei Stellen auftreten können, werden sie nicht notiert. Klingt kompliziert, aber am Beispiel der 1 wird es klar.

| | | | | | | | | |
|---|--------------|--------------|---|---|--------------|--------------|--------------|---|
| 4 | | | | 6 | | ¹ | ¹ | 5 |
| | 5 | | 1 | | 4 | | 3 | |
| 1 | | 2 | | | | 4 | | 7 |
| | 7 | ¹ | | 4 | ¹ | | 9 | |
| 2 | | | 6 | | 9 | | | 1 |
| | 6 | ¹ | | 3 | ¹ | | 2 | |
| 8 | ¹ | 3 | | | | 7 | ¹ | 9 |
| | 2 | ¹ | 3 | | 8 | ¹ | 4 | |
| 6 | | | | 1 | | | | 3 |

Weiter geht es mit der 2.

| | | | | | | | | |
|---|--------------|--------------|--------------|---------------|---------------|--------------|--------------|--------------|
| 4 | | | ² | 6 | ² | | ¹ | 5 |
| | 5 | | 1 | | 4 | | 3 | ² |
| 1 | | 2 | | | | 4 | | 7 |
| | 7 | ¹ | ² | 4 | ¹² | | 9 | |
| 2 | | | 6 | | 9 | | | 1 |
| | 6 | ¹ | | 3 | ¹ | | 2 | |
| 8 | ¹ | 3 | | ²² | | 7 | | 9 |
| | 2 | | 3 | ² | 8 | ¹ | 4 | |
| 6 | | | | 1 | | 2 | | 3 |

Weiter geht es mit der 3.

| | | | | | | | | |
|---------------|--------------|--------------|--------------|---|---------------|---------------|--------------|--------------|
| 4 | ³ | | ² | 6 | ²³ | | ¹ | 5 |
| | 5 | | 1 | | 4 | | 3 | ² |
| 1 | ³ | 2 | | | ³ | 4 | | 7 |
| ³³ | 7 | ¹ | ² | 4 | ¹² | ³ | 9 | |
| 2 | ³ | | 6 | | 9 | ³³ | | 1 |
| | 6 | ¹ | | 3 | ¹ | | 2 | |
| 8 | ¹ | 3 | | 2 | | 7 | | 9 |
| | 2 | | 3 | | 8 | ¹ | 4 | |
| 6 | | | | 1 | | 2 | | 3 |

Und der 4.

| | | | | | | | | | |
|---------------|---------------|--------------|--------------|---------------|---------------|---------------|--------------|--------------|---|
| 4 | ³ | | ² | 6 | ²³ | | ¹ | 5 | |
| | 5 | | 1 | | 4 | | 3 | ² | |
| 1 | ³ | 2 | | | ³ | 4 | | 7 | |
| ³³ | 7 | ¹ | ² | 4 | ¹² | ³ | 9 | | |
| 2 | ³⁴ | ⁴ | 6 | | 9 | ³³ | | 1 | |
| | 6 | ¹ | | 3 | ¹ | | 2 | ⁴ | |
| 8 | ¹ | 3 | | ⁴⁴ | ² | ⁴ | 7 | | 9 |
| | 2 | | 3 | | 8 | ¹ | 4 | | |
| 6 | ⁴ | ⁴ | | 1 | | 2 | | 3 | |

Weiter geht es mit der 5.

| | | | | | | | | | |
|--------------|--------------|--------------|--------------|---|---------------|--------------|--------------|--------------|---|
| 4 | ³ | | ² | 6 | ²³ | | ¹ | 5 | |
| | 5 | | 1 | | 4 | | 3 | ² | |
| 1 | ³ | 2 | | | ³ | 4 | | 7 | |
| ³ | 7 | ¹ | ² | 4 | ¹² | | 9 | | |
| 2 | ⁴ | ⁴ | 6 | | 9 | ³ | | 1 | |
| | 6 | ¹ | | 3 | ¹ | | 2 | ⁴ | |
| 8 | ¹ | 3 | | 4 | ² | | 7 | ⁵ | 9 |
| | 2 | | 3 | | 8 | ¹ | 4 | | |
| 6 | ⁴ | ⁴ | | 1 | | 2 | ⁵ | 3 | |

Weiter geht es mit der 6.

| | | | | | | | | | |
|--------------|--------------|---------------|--------------|--------------|---------------|---------------|--------------|--------------|---|
| 4 | ³ | ⁶ | ² | 6 | ²³ | | ¹ | 5 | |
| | 5 | ⁶⁶ | 1 | | 4 | | 3 | ² | |
| 1 | ³ | 2 | | | ³ | 4 | ⁶ | 7 | |
| ³ | 7 | ¹ | ² | 4 | ¹² | ⁶⁶ | 9 | ⁶ | |
| 2 | ⁴ | ⁴ | 6 | | 9 | ³ | | 1 | |
| | 6 | ¹ | | 3 | ¹ | | 2 | ⁴ | |
| 8 | ¹ | 3 | | 4 | ² | ⁶⁶ | 7 | ⁵ | 9 |
| | 2 | | 3 | ⁶ | 8 | ¹ | 4 | ⁶ | |
| 6 | ⁴ | ⁴ | | 1 | | 2 | ⁵ | 3 | |

Und der 7.

| | | | | | | | | | |
|--------------|--------------|--------------|--------------|---|---------------|--------------|---------------|--------------|---|
| 4 | ³ | ⁷ | ² | 6 | ²³ | | ¹ | 5 | |
| ⁷ | 5 | ⁶ | 1 | | 4 | | 3 | ² | |
| 1 | ³ | 2 | | | ³ | 4 | ⁶ | 7 | |
| ³ | 7 | ¹ | ² | 4 | ¹² | ⁶ | 9 | | |
| 2 | ⁴ | ⁴ | 6 | | 9 | ³ | ⁷⁷ | 1 | |
| | 6 | ¹ | ⁷ | 3 | ¹⁷ | ⁷ | 2 | ⁴ | |
| 8 | ¹ | 3 | | 4 | ² | ⁶ | 7 | ⁵ | 9 |
| | 2 | | 3 | | 8 | ¹ | 4 | ⁶ | |
| 6 | ⁴ | ⁴ | | 1 | | 2 | ⁵ | 3 | |



So »knackst« du Sudokus

Bevor man mit der 8 weitermacht, sollte man schauen, ob man schon ein paar Felder ergänzen kann bzw. weitere Mark-2-Felder findet.

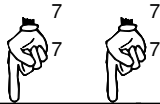
Weiter geht's mit der 8

und der 9 und wieder der 7

| | | | | | | | | |
|---|---|----|---|---|----|----|----------------|---|
| 4 | 3 | 7 | 2 | 6 | 23 | 89 | 1 | 5 |
| 7 | 5 | 6 | 1 | 4 | 89 | 3 | 2 | |
| 1 | 3 | 2 | | 3 | 4 | 6 | 7 | |
| 3 | 7 | 15 | 2 | 4 | 12 | 6 | 9 | 8 |
| 2 | 4 | 45 | 6 | | 9 | 3 | 7 | 1 |
| 9 | 6 | 1 | 7 | 3 | 17 | 5 | 2 | 4 |
| 8 | 1 | 3 | 4 | 2 | 6 | 7 | 5 ⁸ | 9 |
| 5 | 2 | 7 | 3 | | 8 | 1 | 4 | 6 |
| 6 | 4 | 47 | 5 | 1 | 5 | 2 | 5 ⁸ | 3 |

| | | | | | | | | |
|---|---|----|----------------|---|----|----|---|---|
| 4 | 3 | | 2 | 6 | 23 | 89 | 1 | 5 |
| 7 | 5 | 6 | 1 | | 4 | 89 | 3 | 2 |
| 1 | 3 | 2 | | | 3 | 4 | 6 | 7 |
| 3 | 7 | 15 | 2 | 4 | 12 | 6 | 9 | 8 |
| 2 | 4 | 45 | 6 | 8 | 9 | 3 | 7 | 1 |
| 9 | 6 | 1 | 7 ⁸ | 3 | 17 | 5 | 2 | 4 |
| 8 | 1 | 3 | 4 | 2 | 6 | 7 | 5 | 9 |
| 5 | 2 | 7 | 3 | | 8 | 1 | 4 | 6 |
| 6 | 4 | 47 | 5 | 1 | 5 | 2 | 8 | 3 |

| | | | | | | | | |
|---|---|----------------|----------------|----------------|-----|----|---|---|
| 4 | 3 | | 27 | 6 | 237 | 89 | 1 | 5 |
| 7 | 5 | 6 | 1 | | 4 | 89 | 3 | 2 |
| 1 | 3 | 2 | | | 3 | 4 | 6 | 7 |
| 3 | 7 | 15 | 2 | 4 | 12 | 6 | 9 | 8 |
| 2 | 4 | 45 | 6 | 8 | 9 | 3 | 7 | 1 |
| 9 | 6 | 1 | 7 ⁸ | 3 | 17 | 5 | 2 | 4 |
| 8 | 1 | 3 | 4 | 2 | 6 | 7 | 5 | 9 |
| 5 | 2 | 7 ⁹ | 3 | 9 ⁷ | 8 | 1 | 4 | 6 |
| 6 | 4 | 47 | 5 ⁹ | 1 | 5 | 2 | 8 | 3 |



und dann geht's schnell weiter, bis der Rest erledigt ist.

| | | | | | | | | |
|---|---|----------------|----------------|----------------|-----|----|---|---|
| 4 | 3 | | 27 | 6 | 237 | 89 | 1 | 5 |
| 7 | 5 | 6 | 1 | | 4 | 89 | 3 | 2 |
| 1 | 3 | 2 | | | 3 | 4 | 6 | 7 |
| 3 | 7 | 15 | 2 | 4 | 12 | 6 | 9 | 8 |
| 2 | 4 | 45 | 6 | 8 | 9 | 3 | 7 | 1 |
| 9 | 6 | 1 | 7 ⁸ | 3 | 17 | 5 | 2 | 4 |
| 8 | 1 | 3 | 4 | 2 | 6 | 7 | 5 | 9 |
| 5 | 2 | 7 ⁹ | 3 | 7 ⁹ | 8 | 1 | 4 | 6 |
| 6 | 4 | 47 | 5 ⁹ | 1 | 5 | 2 | 8 | 3 |

| | | | | | | | | |
|---|---|----------------|----------------|---|-----|----|---|---|
| 4 | 3 | | 27 | 6 | 237 | 89 | 1 | 5 |
| 7 | 5 | 6 | 1 | | 4 | 89 | 3 | 2 |
| 1 | 3 | 2 | | | 3 | 4 | 6 | 7 |
| 3 | 7 | 15 | 2 | 4 | 12 | 6 | 9 | 8 |
| 2 | 4 | 45 | 6 | 8 | 9 | 3 | 7 | 1 |
| 9 | 6 | 1 | 7 ⁸ | 3 | 17 | 5 | 2 | 4 |
| 8 | 1 | 3 | 4 | 2 | 6 | 7 | 5 | 9 |
| 5 | 2 | 7 ⁹ | 3 | 7 | 8 | 1 | 4 | 6 |
| 6 | 4 | 47 | 5 ⁹ | 1 | 5 | 2 | 8 | 3 |

| | | | | | | | | |
|---|----------------|----------------|---|---|---|----------------|---|---|
| 4 | 3 | 8 ⁹ | 7 | 6 | 2 | 8 ⁹ | 1 | 5 |
| 7 | 5 | 6 | 1 | 9 | 4 | 8 ⁹ | 3 | 2 |
| 1 | 8 ⁹ | 2 | 5 | 8 | 3 | 4 | 6 | 7 |
| 3 | 7 | 5 | 2 | 4 | 1 | 6 | 9 | 8 |
| 2 | 8 | 4 | 6 | 5 | 9 | 3 | 7 | 1 |
| 9 | 6 | 1 | 8 | 3 | 7 | 5 | 2 | 4 |
| 8 | 1 | 3 | 4 | 2 | 6 | 7 | 5 | 9 |
| 5 | 2 | 9 | 3 | 7 | 8 | 1 | 4 | 6 |
| 6 | 4 | 7 | 9 | 1 | 5 | 2 | 8 | 3 |

Dann kann die 7 nur noch hier hin

Lösung:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | 3 | 8 | 7 | 6 | 2 | 9 | 1 | 5 |
| 7 | 5 | 6 | 1 | 9 | 4 | 8 | 3 | 2 |
| 1 | 9 | 2 | 5 | 8 | 3 | 4 | 6 | 7 |
| 3 | 7 | 5 | 2 | 4 | 1 | 6 | 9 | 8 |
| 2 | 8 | 4 | 6 | 5 | 9 | 3 | 7 | 1 |
| 9 | 6 | 1 | 8 | 3 | 7 | 5 | 2 | 4 |
| 8 | 1 | 3 | 4 | 2 | 6 | 7 | 5 | 9 |
| 5 | 2 | 9 | 3 | 7 | 8 | 1 | 4 | 6 |
| 6 | 4 | 7 | 9 | 1 | 5 | 2 | 8 | 3 |

Viel Spaß beim Lösen der Sudokus wünschen Ihnen der Kohl-Verlag und Dirk Meyer.



So »knackst« du Sudokus

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 2 | 8 | 9 | | | |
| 8 | | | 3 | | 6 | | | 4 |
| | 6 | 9 | | | | 8 | 7 | |
| 9 | 1 | | | | | | 4 | 2 |
| 3 | | | 7 | 1 | 2 | | | 5 |
| 6 | 2 | | | | | | 1 | 8 |
| | 8 | 4 | | | | 6 | 2 | |
| 7 | | | 6 | | 1 | | | 9 |
| | | | 8 | 2 | 5 | | | |

| | | | | | | | | |
|---|---|---|---|---|---|--|---|---|
| | 7 | | | 2 | | | 5 | |
| 9 | | | 7 | 1 | 8 | | | 2 |
| | | | | 4 | | | | |
| 5 | | 7 | | | | | 6 | 1 |
| | 1 | | | | | | | 3 |
| 2 | | 8 | | | | | 9 | 4 |
| | | | | 5 | | | | |
| 1 | | | 4 | 9 | 2 | | | 3 |
| | 9 | | | 6 | | | | 1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 6 | | | | 8 | | | |
| | 9 | 1 | | | 7 | | | |
| 7 | | | 1 | | | | 9 | |
| 5 | | | | 9 | | | | 6 |
| | | 2 | | | | 4 | | |
| 3 | | | | 6 | | | | 2 |
| | 8 | | | | 2 | | | 7 |
| | | | 4 | | | 9 | 3 | |
| | | | 6 | | | | 4 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 9 | | 2 | | 7 | | |
| | 4 | 6 | 1 | | 7 | 3 | 2 | |
| | 5 | 2 | | | | 6 | 1 | |
| | 9 | | 5 | | 3 | | 6 | |
| 6 | | | 4 | 1 | 8 | | | 2 |
| | 8 | | 2 | | 6 | | 4 | |
| | 2 | 7 | | | | 1 | 9 | |
| | 6 | 8 | 7 | | 1 | 2 | 5 | |
| | | 3 | | 8 | | 4 | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 9 | 4 | 3 | | | |
| | 6 | | 2 | | 7 | | 8 | |
| | | | 5 | | 8 | | | |
| 2 | 5 | 6 | | | | 3 | 4 | 1 |
| 7 | | | | 3 | | | | 2 |
| 4 | 8 | 3 | | | | 9 | 7 | 6 |
| | | | 3 | | 1 | | | |
| | 2 | | 8 | | 5 | | 9 | |
| | | | 4 | 9 | 6 | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | 3 |
| 4 | | 6 | 3 | | 9 | 5 | | 1 |
| | | 5 | | 1 | | 9 | | |
| | 3 | | 4 | | 7 | | 9 | |
| | | 7 | | 9 | | 2 | | |
| | 4 | | 1 | | 6 | | 5 | |
| | | 3 | | 6 | | 4 | | |
| 9 | | 1 | 8 | | 4 | 6 | | 5 |
| 7 | | | | | | | | 2 |