

# Makodoku

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns and the nine outlined 3x3 regions.



(Solution)

A cross between two cells indicates that the product of the numbers in these cells is less than 10. A plus between two cells indicates that the sum of the numbers in these cells is less than 10. If the sum and product are less than 10, then there is a cross between these cells. If there is no sign between two cells, then both sum and product are at least 10.

The image shows a 9x9 grid for a Makodoku puzzle. The grid is divided into a 3x3 grid of 3x3 regions by thick lines. Signs (+ for sum < 10, x for product < 10) are placed between adjacent cells. Two numbers are pre-filled: '7' in row 4, column 2 and '5' in row 5, column 8. The signs are distributed as follows: Row 1: (1,1)-(1,2) +, (1,2)-(1,3) x, (1,3)-(1,4) +, (1,4)-(1,5) +, (1,5)-(1,6) +, (1,6)-(1,7) +, (1,7)-(1,8) +, (1,8)-(1,9) +. Row 2: (2,1)-(2,2) +, (2,2)-(2,3) +, (2,3)-(2,4) +, (2,4)-(2,5) +, (2,5)-(2,6) +, (2,6)-(2,7) +, (2,7)-(2,8) x, (2,8)-(2,9) +. Row 3: (3,1)-(3,2) +, (3,2)-(3,3) +, (3,3)-(3,4) +, (3,4)-(3,5) +, (3,5)-(3,6) +, (3,6)-(3,7) +, (3,7)-(3,8) x, (3,8)-(3,9) +. Row 4: (4,1)-(4,2) x, (4,2)-(4,3) +, (4,3)-(4,4) +, (4,4)-(4,5) +, (4,5)-(4,6) +, (4,6)-(4,7) x, (4,7)-(4,8) +, (4,8)-(4,9) x. Row 5: (5,1)-(5,2) x, (5,2)-(5,3) +, (5,3)-(5,4) +, (5,4)-(5,5) +, (5,5)-(5,6) +, (5,6)-(5,7) x, (5,7)-(5,8) +, (5,8)-(5,9) +. Row 6: (6,1)-(6,2) +, (6,2)-(6,3) +, (6,3)-(6,4) +, (6,4)-(6,5) x, (6,5)-(6,6) +, (6,6)-(6,7) +, (6,7)-(6,8) x, (6,8)-(6,9) +. Row 7: (7,1)-(7,2) +, (7,2)-(7,3) +, (7,3)-(7,4) x, (7,4)-(7,5) x, (7,5)-(7,6) +, (7,6)-(7,7) +, (7,7)-(7,8) +, (7,8)-(7,9) +. Row 8: (8,1)-(8,2) +, (8,2)-(8,3) x, (8,3)-(8,4) x, (8,4)-(8,5) +, (8,5)-(8,6) +, (8,6)-(8,7) +, (8,7)-(8,8) +, (8,8)-(8,9) +. Row 9: (9,1)-(9,2) +, (9,2)-(9,3) x, (9,3)-(9,4) x, (9,4)-(9,5) +, (9,5)-(9,6) +, (9,6)-(9,7) +, (9,7)-(9,8) +, (9,8)-(9,9) +.

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