

SUM-DOKU

To solve a Sum-Doku puzzle, enter numbers into the diagram so that every row, every column, and every small 9-box square within the larger diagram (there are 9 of these) contains the numbers 1 through 9. Note, however, that each puzzle also contains areas surrounded by dotted lines, each with a small number in the upper left corner. The digits you enter into each of these areas, called cages, must add up to the number in the corner, and all of the digits in each of these areas must be different from one another. Since cages may cross over heavy lines, they can contain digits from more than one 9-box square.

So, for example, if there's a cage made up of two boxes and the total sum for the cage is 4, the only possibilities for the boxes are 1 and 3 in some order. The numbers 2 and 2 couldn't work since that would mean repeated digits in a row, column, or cage, which isn't allowed. The correct placement of the 1 and 3 will depend on the other clues available in the diagram; that is, on how these digits will "fit" with the others in their respective rows, columns, and 9-box squares.

Though there may be several possible combinations of digits for a given cage, only one combination, with the digits in one particular order, will correspond with the correct placement of 1 through 9 in your rows, columns, and 9-box squares.

As a help, you can find the digit combinations for all 2-digit, 3-digit, 4-digit, 5-digit, and 6-digit sums by going to http://www.pennydellpuzzles.com/puzzlers_corner/solving_help.aspx and selecting How to Solve Cross Sums/Kakuro/Sum Totals. On the second and third pages of this document, refer to the combination tables to see all of the possible digit combinations for a given sum. They will also show you which sums have the fewest possible combinations — the cages with these sums are often a good place to begin solving.

One last hint to keep in mind while you solve: The digits 1 through 9 add up to 45.

Solution is on the next page.

10		29	7			5	16	5
23		18					8	30
25	3			11				
	17	3	4	22	12		7	
	7			9	13	16		
		6				6		
	13	19			22	22		1
	2	15	27					
5					1		6	

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SUM-DOKU SOLUTION

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

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