

The Sudoku Addition Puzzle — Autumn Edition

Task 1.1. Solve the sudoku puzzle. Rules:

- Fill the grid with numbers 1 through 6.
- Each row, column, and 3×2 box must contain all numbers from 1 to 6 exactly once.
- Some squares are marked with a small leaf in the corner. The numbers in the marked squares are hidden (not necessarily the same in each marked square).
- The sum of the numbers in the marked squares of each row and of each column is written for you.

✱						= 1
	4		✱		3	= 1
✱	2		3			= 4
			✱	✱	✱	= 11
✱		✱		✱	✱	= 16
✱	✱		6			= 7
=	=	=	=	=	=	
13	5	1	6	6	9	

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Task 1.2. Decode the word!

- Look at your solution of Task 1.1. Locate all numbers "5".
- In the field below, shade all squares that correspond to the positions of the numbers "5" in the Task 1.1 puzzle.
- You get six letters. Read them in order: first the letter in the first row, then the one in the second row, and so on. They spell an autumn word!

n	g	p	y	a	d
c	e	o	w	b	u
i	b	o	r	r	d
k	d	v	r	b	w
e	k	y	y	w	n
w	s	p	b	k	b

The decoded word:

Answer key

Task 1.1. Solution (green = given, red = marked squares, shaded = the fives):

1	6	3	4	5	2	= 1
5	4	2	1	6	3	= 1
4	2	5	3	1	6	= 4
3	1	6	5	2	4	= 11
6	3	1	2	4	5	= 16
2	5	4	6	3	1	= 7
=	=	=	=	=	=	
13	5	1	6	6	9	

A way in: rows 1 and 2 each have a single marked square adding to 1, so those cells are 1; row 3's marked square is 4; column 3's is 1; column 2's is 5. Column 1: $1 + 4 + ? + ? = 13$, so the two lower marked squares make 8; row 6: $? + 5 = 7$ gives 2, so the row-5 square in column 1 is 6. Row 5: $6 + 1 + ? + ? = 16$, so the last two marked squares are 4 and 5. Column 4: $1 + ? = 6$ gives 5 in row 4, so row 4's other two marked squares add to 6; with column 5 (sum 6) and column 6 (sum 9) this forces 2 and 4 in row 4 and 4 and 5 in row 5. The rest is ordinary sudoku.

Task 1.2. The fives are in row 1 column 5, row 2 column 1, row 3 column 3, row 4 column 4, row 5 column 6, row 6 column 2. The word is ACORNS.

n	g	p	y	a	d
c	e	o	w	b	u
i	b	o	r	r	d
k	d	v	r	b	w
e	k	y	y	w	n
w	s	p	b	k	b