

Difficulty: ★★★★★

Cross Figure - Hard Puzzle #12

This puzzle is like a crossword, but with numbers. Each digit occupies a square and can be a part of a "word" in the across and down directions.

Rules:

- "Words" may not start with a zero.
- "Words" read from left to right and top to bottom.
- There is one unique solution which satisfies all the clues given below.
- Some "words" may not have clues. They will be determined by the "words" which intersect them.

1	2		3			4		5	6		7	8
9					10						11	
12				13				14				
15			16			17		18			19	
		20		21	22		23			24		
25	26								27		28	29
30					31						32	
33		34							35	36		
				37		38		39				
40	41		42					43	44		45	46
47								48				
49					50	51					52	
53								54				

Across

- 1 Mean of 47 across and 31 across
- 5 A prime number
- 9 46 down minus 27 across
- 10 33 across minus 45 across
- 11 30 across minus 32 across
- 12 Two thousand eighty-one more than 22 down
- 14 Eighty-two times a prime number
- 15 23 down divided by 13 down
- 16 Mean of 43 across and 42 across
- 18 43 across minus 51 down
- 19 42 across reversed
- 21 Thirty-five times a prime number
- 25 Mean of 6 down and 40 across
- 27 46 down minus 24 down
- 30 Twice the result of 8 down minus 44 down
- 31 Thirty-two times 17 down
- 32 9 across minus 11 across
- 33 26 down plus 20 down
- 35 A prime number
- 37 38 down times 42 down
- 40 Same as 52 across
- 42 36 down minus 11 across
- 43 4 down plus 32 across
- 45 7 down minus 41 down
- 47 Twice a prime number
- 48 21 across minus 36 down
- 49 51 down plus 42 across
- 50 10 across minus 25 down
- 52 Consecutive digits in ascending order
- 53 Three hundred twenty-eight more than 54 across
- 54 Twice the result of 12 across plus 5 across

Down

- 1 Sixty-six times a prime number
- 2 A prime number
- 3 53 across divided by 32 across
- 4 49 across minus 16 across
- 6 Three hundred thirty-six less than 27 across
- 7 41 down plus 20 down
- 8 44 down plus 42 across
- 13 25 down divided by three
- 14 Fifteen times a prime number
- 17 18 across divided by five
- 20 11 across plus 15 across
- 22 Ten times a prime number
- 23 Twenty-nine times 25 down
- 24 34 down plus 32 across
- 25 26 down minus 50 across
- 26 33 across minus 45 across
- 28 Twice the result of 14 down plus 9 across
- 29 A prime number
- 34 Mean of 38 down and 17 down
- 36 Mean of 51 down and 32 across
- 37 Thirty-seven times 19 across
- 38 43 across minus 32 across
- 39 Consecutive digits unordered
- 40 Twenty-three times a prime number
- 41 Thirteen times a prime number
- 42 37 across divided by 4 down
- 44 A prime number
- 45 35 across plus 43 across
- 46 27 across plus 30 across
- 51 Mean of 19 across and 36 down

Solution:

4	5	4	1	9		1		2	7	1	4	3
8	2		3		9	2	0		9		1	1
1	9	4	1	1				2	3	0	4	2
8	7		6	2		1		5	0		1	4
		9		7	1	0	1	5		8		
3	9	8	2		7		1		8	2	6	6
8	2				3	2	0				7	1
1	0	1	8		3		4		9	5	4	7
		1		5	0	1	9	6		2		
3	4		4	1		2		8	3		9	8
9	0	5	1	8				7	0	9	6	3
7	4		8		5	3	9		8		3	4
9	3	4	3	6		3		9	3	1	0	8