

Difficulty: ★★★★★

Cross Figure - Hard Puzzle #13

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		55	
56					57	58	59			60			
61					62							63	

Across

- 1 49 down minus 26 down
- 4 Four times a prime number
- 9 Sum of digits in 4 down
- 11 56 across plus 28 across
- 12 57 across plus half of 55 down
- 13 Rearranged digits of 1 down
- 14 20 down plus 40 down
- 15 16 across plus 50 across
- 16 40 down times 35 across
- 17 31 across plus 32 across
- 18 13 across plus 5 down
- 19 Twice the result of 25 down minus 1 down
- 21 63 across minus 31 across
- 24 30 down minus 46 across
- 28 17 across minus 21 across
- 30 29 down plus 1 across
- 31 59 down divided by four
- 32 Mean of 9 across and 39 across
- 34 Four times 9 across
- 35 Twice the result of 34 down minus 21 across
- 36 Mean of 30 across and 41 across
- 37 Mean of 35 across and 36 across
- 38 Same as 30 across
- 39 19 across minus 46 across
- 41 24 across plus 5 down
- 43 21 down minus half of 38 across
- 46 45 down divided by 54 down
- 48 Mean of 18 across and 29 down
- 50 30 across minus 55 across
- 52 Eighty-nine times 40 down
- 53 Mean of 54 down and 16 across
- 55 46 across minus 43 across
- 56 Mean of 37 across and 48 across
- 57 A prime number
- 60 4 across plus 2 down
- 61 22 down divided by 21 down
- 62 Sixty times 61 across
- 63 A square

Down

- 1 Rearranged digits of 56 across
- 2 Two-thirds of 54 down
- 3 23 down minus 1 across
- 4 A prime number
- 5 14 across minus 31 across
- 6 53 across minus 51 down
- 7 A prime number
- 8 A square
- 9 A cube
- 10 27 down minus 19 across
- 20 9 across plus 63 across
- 21 6 down minus 28 across
- 22 24 across times 41 across
- 23 52 down plus 63 across
- 24 Fifty-three times 39 across
- 25 55 across times 34 across
- 26 56 across minus 42 down
- 27 Three hundred thirteen more than 13 across
- 29 A square
- 30 Mean of 36 across and 37 across
- 33 34 down minus 63 across
- 34 Mean of 35 across and 36 across
- 40 30 across minus 6 down
- 42 A square
- 44 47 down times 28 across
- 45 First two digits are the same as 29 down
- 47 35 across times 63 across
- 49 Mean of 48 across and 59 down
- 51 Forty-nine times 28 across
- 52 52 across minus half of 55 across
- 54 Nine times 37 across
- 55 Fourteen times a prime number
- 58 27 down minus 10 down
- 59 Twice 21 down

Solution:

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