

Difficulty: ★★★★★

Cross Figure - Hard Puzzle #37

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:

1. "Words" may not start with a zero.
2. "Words" read from left to right and top to bottom.
3. There is one unique solution which satisfies all the clues given below.
4. 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
64					65						66		

Across

- 1 A prime number
- 4 30 across minus half of 21 down
- 6 44 across plus 37 across
- 9 15 across plus 52 down
- 10 Same as 3 down
- 11 53 across minus 44 across
- 12 56 across minus half of 58 down
- 15 2 down plus 53 across
- 17 Mean of 63 down and 22 across
- 18 46 down minus 21 across
- 20 18 down minus 61 down
- 21 Half of 62 down, then subtract 25 down
- 22 8 down minus 24 across
- 24 A square
- 25 53 across minus 46 down
- 26 58 down plus 54 down
- 30 Forty-two times a prime number
- 32 Twice the result of 61 across plus 44 across
- 34 19 down plus 15 across
- 36 62 down plus 39 down
- 37 8 down plus half of 48 across
- 38 Five times a prime number
- 41 Twenty-one times 42 down
- 44 Mean of 51 across and 62 down
- 45 1 down plus half of 20 across
- 47 Mean of 53 across and 49 down
- 48 15 across minus 49 across
- 49 A square
- 50 47 across minus 6 down
- 51 29 down divided by 66 across
- 53 37 across minus 11 across
- 56 13 down plus 6 across
- 59 10 across minus 18 down
- 60 Mean of 18 down and 10 across
- 61 55 down plus 1 down
- 64 36 across plus 49 down
- 65 26 down plus 33 down
- 66 4 down minus 64 across

Down

- 1 Mean of 33 down and 34 across
- 2 Half of 59 across, then subtract 40 down
- 3 34 across minus 44 across
- 4 A prime number
- 5 7 down plus 57 down
- 6 39 down divided by 14 down
- 7 62 down minus 6 down
- 8 Mean of 25 across and 5 down
- 13 A square
- 14 15 across minus 18 across
- 16 36 across minus 62 down
- 18 Mean of 11 across and 19 down
- 19 Mean of 63 down and 18 down
- 21 Mean of 5 down and 55 down
- 23 Twice the result of 33 down minus 56 down
- 25 11 across minus 13 down
- 26 22 across times 49 across
- 27 4 across minus 19 down
- 28 9 across times 13 down
- 29 66 across times 50 across
- 30 27 down plus 55 down
- 31 Twice the result of 41 across minus 43 down
- 33 8 down minus 50 across
- 35 Mean of 51 across and 17 across
- 39 7 down times 20 across
- 40 6 across divided by thirteen
- 42 Mean of 15 across and 45 down
- 43 64 across plus 66 across
- 45 49 across plus 46 down
- 46 66 across minus 45 down
- 49 48 across minus 35 down
- 52 22 across plus half of 17 across
- 54 26 across minus 11 across
- 55 21 across times 40 down
- 56 A square
- 57 35 down plus 21 across
- 58 Same as 11 across
- 61 65 across minus 26 down
- 62 25 down plus 19 down
- 63 18 across plus 58 down

Solution:

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