

Difficulty: ★★★★★

Cross Figure - Hard Puzzle #35

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		67	68	69	70
71					72						73		

Across

- 1 50 down times 20 down
- 4 61 down times 53 down
- 8 20 down plus 29 across
- 11 Twenty-one times 47 down
- 13 Ten times a prime number
- 14 Four hundred forty-nine more than 32 down
- 15 12 down reversed
- 17 70 down plus 24 down
- 18 14 across divided by 9 down
- 21 7 down minus 41 down
- 23 51 down minus 54 across
- 26 Mean of 58 down and 28 across
- 27 25 down divided by 4 down
- 28 3 down plus 20 down
- 29 Half of 31 across, then subtract 72 across
- 31 Sixty-one times 7 down
- 35 72 across minus 61 down
- 38 9 down minus 61 down
- 39 Twenty-five times a prime number
- 42 32 down plus 58 across
- 43 18 down divided by 21 across
- 44 Five times a prime number
- 46 Eighty less than 42 across
- 49 Mean of 73 across and 51 down
- 51 64 down plus 65 down
- 52 64 down plus 36 down
- 54 29 across plus 15 across
- 55 69 down plus 56 across
- 56 16 down minus 51 across
- 57 Mean of 69 down and 63 down
- 58 2 down plus 18 across
- 60 30 down minus 59 down
- 62 A prime number
- 65 11 across minus 5 down
- 67 30 down plus 3 down
- 71 Mean of 67 across and 50 down
- 72 35 across plus 10 down
- 73 Twice the result of 6 down minus 57 down

Down

- 1 37 down plus 57 down
- 2 Mean of 66 down and 57 across
- 3 A square
- 4 70 down plus 50 down
- 5 Mean of 63 down and 53 down
- 6 46 down plus 66 down
- 7 45 down minus 54 across
- 8 37 down plus half of 70 down
- 9 4 down minus 24 down
- 10 4 across divided by 53 down
- 12 46 across minus 32 down
- 14 55 across minus 61 down
- 16 Half of 46 down, then subtract 63 down
- 18 39 down times 68 down
- 19 Twice the result of 11 across minus 44 across
- 20 16 down minus 4 down
- 22 Thirty-six times 20 down
- 23 Mean of 49 across and 23 across
- 24 9 down plus 12 down
- 25 51 down plus 38 across
- 30 37 down plus 59 down
- 32 46 across minus 63 down
- 33 Twelve times a prime number
- 34 33 down minus 24 down
- 35 16 down minus 58 across
- 36 Half of 51 down, then subtract 5 down
- 37 29 across minus 49 across
- 39 Same as 43 across
- 40 Mean of 64 down and 15 across
- 41 18 across minus 20 down
- 45 55 across plus 1 across
- 46 18 across plus 47 down
- 47 1 down plus 4 down
- 48 71 across minus half of 35 down
- 50 Mean of 57 down and 16 down
- 51 58 down minus 61 down
- 53 55 across plus 29 across
- 54 14 down plus 50 down
- 57 Mean of 65 down and 21 across
- 58 54 down plus 53 down
- 59 1 across plus 36 down
- 61 23 across minus 57 down
- 62 Mean of 16 down and 12 down
- 63 Same as 12 down
- 64 Mean of 15 across and 9 down
- 65 Mean of 14 down and 36 down
- 66 Mean of 61 down and 62 down
- 68 Sum of digits in 54 down
- 69 39 across divided by 47 down
- 70 Mean of 65 down and 14 down

Solution:

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