

Difficulty: ★★★★★

CrossFigure - Hard Puzzle #33

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		

Across

- 1 1 down plus 15 across
- 4 37 across divided by 28 across
- 6 Mean of 39 across and 31 down
- 9 First, second, and fourth digits are the same
- 11 Seven thousand eight hundred thirty-three less than 37 across
- 13 Two hundred eighteen more than 2 down
- 14 17 down plus 3 down
- 15 25 across minus 5 down
- 16 14 across minus 18 down
- 18 Two less than 25 across
- 19 20 down minus 28 across
- 22 Twice a prime number
- 23 Mean of 4 down and 19 across
- 25 34 down minus 16 across
- 27 A square
- 28 Same as 4 down
- 30 Twice the result of 24 down minus 17 down
- 32 Seventy-seven times 37 down
- 35 9 across minus half of 10 down
- 37 4 across times 4 down
- 38 A prime number
- 39 A prime number
- 40 Seven times a prime number

Down

- 1 Twice a prime number
- 2 Twice the result of 12 down plus 36 down
- 3 Mean of 30 down and 38 across
- 4 20 down minus 19 across
- 5 6 across minus 30 down
- 6 22 across plus 25 across
- 7 Mean of 32 across and 8 down
- 8 23 across plus 34 down
- 10 Twelve times a prime number
- 12 Thirty-eight times 4 down
- 17 Fourteen times 19 across
- 18 34 down plus 4 across
- 20 Twice 23 across
- 21 Twice the result of 40 across plus 5 down
- 24 Thirteen times a prime number
- 25 Nine times a prime number
- 26 Ten times 8 down
- 29 Seven hundred seventy-five more than 2 down
- 30 Mean of 22 across and 1 across
- 31 Mean of 34 down and 40 across
- 33 39 across minus 19 across
- 34 Mean of 27 across and 31 down
- 36 6 across minus 30 down
- 37 A prime number

Solution:

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