

Cross Figure - Challenging Puzzle #19

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		

Across

- 1 3 across minus half of 24 across
- 3 43 across minus 16 down
- 5 A prime number
- 9 32 down plus 17 across
- 10 Twice the result of 1 down plus 2 down
- 13 Mean of 34 across and 37 across
- 14 A prime number
- 15 A prime number
- 17 Mean of 16 down and 14 down
- 19 29 across minus 14 down
- 20 15 across minus 5 down
- 22 43 across minus 41 across
- 23 18 down divided by 40 down
- 24 Mean of 43 across and 27 across
- 25 23 across minus 14 down
- 26 14 down minus 11 down
- 27 9 across minus 29 down
- 29 Twice the result of 27 across plus 19 across
- 31 32 down minus 26 across
- 34 41 across reversed
- 36 5 across minus 19 across
- 37 5 across plus 22 across
- 41 29 across plus 24 across
- 42 31 down minus 41 across
- 43 Mean of 22 down and 22 across
- 44 Mean of 1 across and 15 across

Down

- 1 Twice a prime number
- 2 11 down plus 37 across
- 4 Mean of 40 down and 5 across
- 5 41 down plus 14 across
- 6 Twenty thousand five hundred nineteen more than 39 across
- 7 44 across times 25 across
- 8 Seventy-two times a prime number
- 11 Mean of 27 across and 22 across
- 12 32 down plus 19 across
- 14 Mean of 32 down and 29 down
- 16 Mean of 36 down and 12 down
- 18 Seventy-eight times a prime number
- 21 Mean of 41 down and 14 down
- 22 41 across plus 43 across
- 28 Mean of 6 down and 41 down
- 29 38 down minus 1 across
- 30 Twenty-seven times a prime number
- 31 Twenty-three times a square
- 32 19 across plus 25 across
- 33 30 down plus half of 8 down
- 35 A square
- 36 25 across plus 23 across
- 38 Mean of 4 down and 35 down
- 40 Mean of 11 down and 41 down
- 41 Mean of 12 down and 4 down

Solution:

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