

CrossFigure - 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	

Across

- 1 10 across minus half of 7 across
- 3 Mean of 35 across and 23 down
- 5 6 down minus half of 45 down
- 6 Mean of 25 down and 16 across
- 7 41 down plus 23 down
- 9 Mean of 23 across and 3 across
- 10 Twice 8 down
- 11 33 down plus 39 across
- 14 42 across plus 7 across
- 16 25 across minus 1 down
- 18 Sixty-two more than 38 across
- 19 A prime number
- 21 25 across plus half of 38 across
- 23 6 down minus 23 down
- 25 Mean of 43 across and 12 down
- 27 5 across plus 45 down
- 28 36 across divided by 26 down
- 29 Mean of 19 across and 6 across
- 30 22 down minus 14 across
- 32 Two hundred sixty-three less than 19 across
- 35 Mean of 27 across and 7 across
- 36 28 across times 44 across
- 38 Eight times a prime number
- 39 Three times a prime number
- 41 Mean of 16 across and 7 across
- 42 A square
- 43 Mean of 1 down and 9 across
- 44 Same as 26 down
- 46 27 across minus 16 across
- 47 27 across minus 6 down

Down

- 1 41 across plus 26 down
- 2 6 across plus 36 across
- 3 Twenty-seven times 16 across
- 4 Mean of 43 across and 12 down
- 6 Mean of 27 across and 5 across
- 8 1 across minus 26 down
- 12 18 across divided by 41 across
- 13 7 across plus 31 down
- 15 39 across minus 43 across
- 17 Half of 33 down, then subtract 42 across
- 20 Half of 32 across, then subtract 25 down
- 22 Sixteen times a prime number
- 23 Mean of 37 down and 5 across
- 24 4 down minus 3 across
- 25 1 down plus 23 across
- 26 35 across minus 1 down
- 29 34 down reversed
- 31 10 across reversed
- 33 Last two digits are the same as 7 across
- 34 Three times a prime number
- 36 Thirteen times 42 across
- 37 Mean of 6 down and 47 across
- 39 1 across minus 41 across
- 40 11 across minus 31 down
- 41 Mean of 16 across and 25 down
- 45 6 across plus 23 across

Solution:

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