

CrossFigure - Hard Puzzle #41

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				45				46		

Across

- 1 29 across plus 24 across
- 4 3 down times 5 down
- 5 44 across minus 7 down
- 8 A prime number
- 10 38 across plus 40 across
- 11 39 down minus 13 down
- 12 27 down minus 41 down
- 14 27 down minus 43 down
- 15 38 down divided by three
- 16 Twice 7 down
- 17 A square
- 19 41 down plus 6 down
- 20 26 across minus 27 across
- 22 Twice the result of 21 down minus 16 across
- 24 Sum of digits in 23 down
- 25 2 down minus 32 across
- 26 A cube
- 27 45 across minus 6 down
- 29 14 across plus 38 down
- 30 Mean of 34 across and 34 down
- 32 Five times 38 across
- 34 33 down minus 15 across
- 36 37 across minus 5 down
- 37 Twice the result of 45 across minus 19 down
- 38 Same as 14 across
- 40 10 across minus 14 across
- 42 One thousand four hundred twenty-six more than 40 across
- 44 Mean of 26 across and 2 down
- 45 2 down plus 46 across
- 46 Mean of 9 down and 43 down

Down

- 1 26 across minus 28 down
- 2 Mean of 1 across and 25 across
- 3 7 down minus 38 down
- 5 34 across minus 14 across
- 6 13 down plus 27 across
- 7 45 across minus 1 down
- 9 20 across plus 2 down
- 10 2 down plus 45 across
- 13 29 across plus 11 across
- 14 46 across minus 31 down
- 16 Twenty-four times a prime number
- 18 20 across times 31 down
- 19 Three times 2 down
- 21 16 across plus 12 across
- 23 15 across plus 20 across
- 27 Half of 44 across, then subtract 32 across
- 28 17 across minus 1 down
- 31 41 down plus 32 across
- 33 37 across plus 36 across
- 34 37 across plus 1 down
- 35 Eight times a prime number
- 38 Mean of 19 across and 38 across
- 39 5 across plus 30 across
- 41 12 across minus 11 across
- 43 Mean of 32 across and 12 across

Solution:

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