

CrossFigure - Hard Puzzle #17

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			

Across

- 1 Seven times a square
- 3 Three times a prime number
- 5 49 across plus 46 across
- 7 A square
- 8 A prime number
- 10 34 down minus 40 across
- 12 15 across minus 7 down
- 13 2 down minus 3 across
- 15 Twice 42 across
- 18 8 across reversed
- 19 Four times a prime number
- 20 20 down minus 15 across
- 21 Forty-six times 14 down
- 23 24 across plus 7 down
- 24 48 across divided by 41 down
- 26 18 across plus 39 across
- 28 Twice the result of 29 across minus 30 across
- 29 7 down plus 25 down
- 30 46 across minus 11 down
- 31 27 down times 39 across
- 33 47 across plus half of 15 across
- 35 Twice the result of 1 across plus 12 across
- 37 Mean of 42 across and 41 down
- 39 12 across minus 28 across
- 40 Sixteen times a prime number
- 42 Mean of 39 across and 46 down
- 43 First two digits are the same as 43 down
- 44 37 across minus 11 down
- 46 Half of 20 across, then subtract 21 across
- 47 33 across minus 42 across
- 48 Thirty-six times 23 across
- 49 36 down divided by 45 down

Down

- 2 Eight thousand twenty-six less than 6 down
- 3 20 down minus 5 across
- 4 24 down minus 46 down
- 6 19 across times 7 across
- 7 46 down minus 28 across
- 9 46 down minus 7 down
- 11 Mean of 30 across and 41 down
- 14 24 down minus 39 down
- 16 43 across divided by 42 across
- 17 4 down times 18 across
- 20 Mean of 47 across and 4 down
- 22 Eighty-eight times 27 down
- 23 Mean of 3 down and 12 across
- 24 46 down plus 18 across
- 25 A square
- 27 23 down plus 7 across
- 32 22 down divided by 14 down
- 33 30 across times 29 across
- 34 Six times a prime number
- 36 9 down times 49 across
- 38 39 across minus 44 across
- 39 Mean of 9 down and 39 across
- 41 24 across minus 4 down
- 43 33 down divided by 38 down
- 45 24 down minus 41 down
- 46 23 across minus 39 down

Solution:

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