

CrossFigure - Hard Puzzle #3

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												
47												
		48								49		
50					51					52		

Across

- 1 22 down minus 52 across
- 3 1 down plus 45 across
- 5 40 across plus 38 across
- 7 A cube
- 8 45 across minus 40 across
- 10 32 across plus 51 across
- 13 50 across minus 51 across
- 14 41 down minus 2 down
- 16 31 across divided by 46 across
- 17 A square
- 19 A square
- 21 Mean of 41 down and 45 down
- 22 Mean of 38 across and 44 down
- 24 19 across minus 12 down
- 26 4 down minus 38 across
- 27 46 across reversed
- 28 49 down plus 11 down
- 29 2 down times 40 down
- 30 45 across minus 21 across
- 31 2 down times 46 across
- 32 Mean of 13 across and 17 across
- 33 A cube
- 34 17 across times 35 across
- 35 22 across minus 11 down
- 37 Mean of 5 across and 19 across
- 38 19 across minus 16 across
- 40 Twice the result of 30 across minus 49 down
- 42 5 down plus 12 down
- 43 45 across minus 24 across
- 45 A palindrome
- 46 28 across minus 14 across
- 50 Seventy-four times 39 down
- 51 Twice a prime number
- 52 14 across plus 42 down

Down

- 1 5 down plus 22 across
- 2 35 across minus 40 across
- 3 26 across minus 2 down
- 4 Mean of 17 across and 22 down
- 5 33 across minus 16 across
- 6 Twice the result of 24 down plus 14 across
- 8 47 down divided by 7 across
- 9 13 across minus 17 across
- 11 37 across minus 41 down
- 12 Six times 2 down
- 15 19 across minus half of 38 down
- 17 First two digits are the same as first two digits of 44 down
- 18 10 across times 27 across
- 19 A prime number
- 20 A prime number
- 22 51 across minus 9 down
- 23 3 across plus 8 across
- 24 19 across plus 1 across
- 25 37 across plus half of 28 across
- 36 Half of 3 down, then subtract 21 across
- 38 Mean of 17 across and 28 across
- 39 5 across minus 48 down
- 40 32 across plus 39 down
- 41 44 down minus 42 across
- 42 A prime number
- 44 46 across plus 8 down
- 45 32 across plus 45 across
- 47 33 across times 8 down
- 48 24 across plus 38 across
- 49 5 down plus 12 down

Solution:

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