

# CrossFigure - Hard Puzzle #39

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 6 down divided by 1 down
- 3 Thirty-eight times a square
- 5 14 down plus 29 down
- 8 49 down plus 45 across
- 9 Half of 2 down, then subtract 22 down
- 10 47 across minus 46 down
- 12 1 down plus 4 down
- 13 Mean of 47 down and 38 down
- 15 A square
- 16 17 down plus 15 across
- 18 Mean of 3 across and 47 across
- 19 Nineteen times a prime number
- 20 A prime number
- 23 10 across plus 8 across
- 26 21 down divided by 27 down
- 28 42 across plus 26 across
- 30 28 across minus half of 28 down
- 31 33 down minus 7 down
- 32 25 down plus 48 across
- 34 10 across times 28 down
- 36 Mean of 20 across and 11 down
- 39 19 across plus half of 34 across
- 41 24 down times 10 across
- 42 A cube
- 43 34 across minus 47 down
- 44 Mean of 44 down and 29 down
- 45 Mean of 28 across and 1 down
- 47 32 across plus 49 down
- 48 1 across minus 47 across
- 50 44 down plus 45 across
- 51 Same as 21 down
- 52 32 across plus 48 across

**Down**

- 1 47 down minus 32 across
- 2 Mean of 20 across and 44 down
- 3 Mean of 44 down and 24 down
- 4 23 across minus 3 down
- 6 Sixty-eight times 9 across
- 7 44 down plus 1 down
- 9 51 across divided by 10 across
- 11 Forty-one times 25 down
- 14 Mean of 13 across and 23 across
- 17 Mean of 25 down and 19 across
- 21 9 down times 10 across
- 22 Fourteen times a prime number
- 23 Mean of 23 across and 47 down
- 24 23 down minus 10 across
- 25 35 down divided by 7 down
- 27 Mean of 44 across and 52 across
- 28 52 across minus 30 across
- 29 33 down minus 32 across
- 33 4 down plus 52 across
- 35 41 across minus 50 across
- 37 Four hundred twenty more than 21 down
- 38 Four times a prime number
- 39 Mean of 5 across and 24 down
- 40 41 across plus half of 37 down
- 44 52 across minus half of 50 across
- 46 Mean of 8 across and 28 down
- 47 Mean of 23 across and 46 down
- 49 A square

**Solution:**

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