

# CrossFigure - Hard Puzzle #4

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				

**Across**

- 1 Mean of 27 across and 45 across
- 3 30 down times 32 across
- 8 9 down times 20 down
- 13 40 down plus 15 down
- 14 A palindrome
- 16 42 across minus 33 down
- 18 21 across minus 24 across
- 20 3 across divided by 32 across
- 21 Mean of 29 across and 43 down
- 22 15 down minus 9 down
- 24 Twice the result of 20 down minus 35 across
- 26 A square
- 27 One thousand five hundred ninety-seven more than 49 across
- 28 22 down plus 8 across
- 29 36 down plus half of 10 down
- 31 29 across reversed
- 32 24 down minus 43 down
- 33 38 across minus 41 down
- 35 19 down minus 32 across
- 38 42 across divided by 31 across
- 39 Twice a prime number
- 42 47 down times 41 down
- 45 Five times a square
- 46 Forty-six times a prime number
- 48 2 down minus 49 across
- 49 A prime number
- 50 1 across plus 45 across

**Down**

- 2 Seven hundred more than 14 across
- 4 5 down divided by 9 down
- 5 Eleven thousand nine hundred fifty-seven more than 34 down
- 6 23 down divided by 33 down
- 7 Mean of 34 down and 38 across
- 9 26 across plus 35 across
- 10 35 across plus 12 down
- 11 15 down minus 17 down
- 12 Half of 27 across, then subtract 44 down
- 15 9 down plus 33 down
- 17 21 across plus 11 down
- 19 43 down plus 18 across
- 20 40 down minus 30 down
- 22 25 down minus 36 down
- 23 22 across times 6 down
- 24 15 down plus 36 down
- 25 Twenty-seven times 30 down
- 29 31 across times 16 across
- 30 23 down divided by forty-two
- 33 Mean of 40 down and 47 down
- 34 Twice a prime number
- 36 Mean of 26 across and 11 down
- 37 A square
- 39 Mean of 39 across and 37 down
- 40 24 down minus 12 down
- 41 29 down divided by 16 across
- 42 42 across divided by 47 down
- 43 Mean of 36 down and 12 down
- 44 Sixty times a prime number
- 47 Same as 38 across

**Solution:**

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