

# CrossFigure - Hard Puzzle #12

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	50			51			52				53	54
55				56							57	

**Across**

- 1 35 down divided by 1 down
- 3 4 down times 52 across
- 7 Half of 15 down, then subtract 13 down
- 9 19 down minus 10 across
- 10 Mean of 52 across and 53 across
- 11 Mean of 8 down and 49 down
- 12 54 down plus 24 across
- 13 47 across plus 25 across
- 14 Consecutive digits in descending order
- 16 Mean of 30 down and 1 down
- 17 Mean of 26 down and 1 down
- 19 Twenty-four times a prime number
- 21 Last two digits are the same as 28 across
- 24 A square
- 25 31 down minus 49 across
- 28 23 down minus 20 down
- 29 A cube
- 31 19 down minus 53 across
- 33 Twice a prime number
- 34 Twice the result of 22 down minus 50 down
- 37 First two digits are the same as first two digits of 6 down
- 39 Twice a prime number
- 41 Mean of 7 down and 57 across
- 44 10 across plus 36 down
- 45 43 down plus 36 down
- 47 Mean of 8 down and 43 down
- 49 18 down plus 34 down
- 51 29 across minus 19 down
- 52 A square
- 53 Mean of 9 across and 23 down
- 55 24 across minus 52 across
- 56 A prime number
- 57 16 across minus 10 across

**Down**

- 1 7 down minus 20 down
- 2 22 down minus 9 across
- 3 Forty-nine times 31 across
- 4 3 across divided by 38 down
- 5 Two thousand three hundred twenty-one more than 14 across
- 6 21 across minus 19 across
- 7 26 down minus 20 down
- 8 51 across plus half of 12 across
- 13 Sixty-nine times 57 across
- 15 Four times a prime number
- 16 Mean of 2 down and 26 down
- 18 Mean of 22 down and 49 down
- 19 40 down minus 38 down
- 20 40 down minus 53 down
- 22 26 down minus 28 across
- 23 57 across plus 55 across
- 25 Mean of 25 across and 33 across
- 26 Twice the result of 29 across minus 24 across
- 27 Four times a prime number
- 30 56 across minus 5 down
- 31 33 across plus 32 down
- 32 Mean of 7 down and 30 down
- 34 Half of 17 across, then subtract 2 down
- 35 Fifty-four times a prime number
- 36 53 across minus 57 across
- 38 A square
- 40 57 across plus 53 down
- 42 Half of 39 across, then subtract 37 across
- 43 A square
- 46 A square
- 48 49 down plus 16 across
- 49 Mean of 30 down and 49 across
- 50 Mean of 10 across and 40 down
- 53 Mean of 49 down and 2 down
- 54 Twice the result of 3 down minus 25 down

**Solution:**

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