

# CrossFigure - Hard Puzzle # 1

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			

**Across**

- 3 55 across minus 46 down
- 4 22 down divided by 32 down
- 7 Mean of 16 across and 24 across
- 10 32 across minus 43 down
- 11 Mean of 34 down and 41 down
- 13 Eight times a prime number
- 15 14 down plus 54 across
- 16 15 across minus 4 across
- 19 Same as 24 across
- 21 Twice the result of 48 down minus 8 down
- 23 Sum of digits in 13 down
- 24 29 across divided by 43 across
- 25 Mean of 41 down and 7 across
- 26 12 down divided by 55 across
- 28 29 across reversed
- 29 49 down minus 23 down
- 30 50 down plus 45 down
- 31 A square
- 32 36 down plus 3 across
- 33 17 down minus half of 10 across
- 35 53 down plus 43 down
- 37 Mean of 46 down and 54 across
- 38 Mean of 40 across and 14 down
- 40 13 across minus 27 down
- 43 17 down plus 52 across
- 44 Nine times 30 across
- 47 Five hundred sixteen less than 44 across
- 51 11 down plus 37 across
- 52 11 down minus 3 across
- 54 23 across plus 10 down
- 55 51 across plus 3 across

**Down**

- 1 7 across minus 54 across
- 2 Thirty-four times 3 across
- 5 20 down divided by 15 across
- 6 54 across minus 23 across
- 8 A cube
- 9 49 down plus 7 across
- 10 37 across minus 43 across
- 11 43 across minus 23 across
- 12 35 across times 26 across
- 13 Thirty times 43 down
- 14 Mean of 31 across and 53 down
- 15 28 across minus 16 across
- 17 15 across minus 32 across
- 18 Twice the result of 21 down plus 31 across
- 20 26 across times 5 down
- 21 First two digits are the same as first two digits of 11 across
- 22 First two digits are the same as first two digits of 12 down
- 23 41 down plus 46 down
- 27 24 across plus 45 down
- 32 Fifty-four times a prime number
- 34 Ninety-one times 32 across
- 36 37 across minus 23 across
- 39 A square
- 41 33 across plus 53 down
- 42 Mean of 2 down and 51 across
- 43 Mean of 52 across and 38 across
- 45 30 across minus 6 down
- 46 54 across plus 32 across
- 48 29 across divided by 24 across
- 49 Twenty-one times 11 down
- 50 Half of 25 across, then subtract 1 down
- 53 10 across plus 48 down

**Solution:**

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