

Cross Figure - Hard Puzzle #27

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			53				54	

Across

- 1 32 down minus 50 down
- 3 27 across minus 31 across
- 5 Mean of 24 across and 20 down
- 7 Same as 27 across
- 9 30 across plus 43 down
- 11 First two digits are the same as 20 down
- 13 Seven times a prime number
- 14 Mean of 29 across and 5 across
- 16 20 down plus 35 down
- 17 9 across minus half of 35 down
- 19 13 across minus 16 across
- 21 46 down divided by four
- 22 29 across minus 18 down
- 24 18 down minus 51 across
- 27 43 down minus 24 across
- 28 4 down minus 1 down
- 29 1 across plus 1 down
- 30 Mean of 21 across and 31 across
- 31 Half of 46 down, then subtract 40 down
- 35 45 down plus 36 down
- 37 44 down times 52 across
- 40 41 across divided by 36 down
- 41 40 down times 36 down
- 42 2 down minus 1 down
- 44 7 across plus 22 across
- 46 Half of 23 down, then subtract 2 down
- 48 Mean of 41 across and 18 down
- 51 25 down divided by 6 down
- 52 37 across divided by 54 across
- 53 Mean of 40 across and 21 across
- 54 17 across minus 29 across

Down

- 1 40 across plus 44 down
- 2 18 down plus 3 across
- 3 2 down minus 8 down
- 4 28 across plus half of 5 across
- 5 Four hundred eighty-one more than 46 across
- 6 27 across reversed
- 7 44 across minus 8 down
- 8 13 down minus 3 across
- 10 Mean of 17 across and 7 down
- 12 45 down times 14 across
- 13 18 down plus 42 across
- 15 Mean of 5 across and 43 down
- 17 Mean of 3 across and 15 down
- 18 Mean of 1 down and 8 down
- 20 47 down plus 1 down
- 21 One thousand eight hundred seventeen less than 33 down
- 23 Ten times a prime number
- 25 6 down times 40 across
- 26 5 down divided by 20 down
- 27 30 across times 3 down
- 32 Twice the result of 21 down minus 34 down
- 33 Twenty-four times a prime number
- 34 Last two digits are the same as 50 down
- 35 12 down divided by five
- 36 Mean of 42 across and 13 down
- 38 29 across times 21 across
- 39 3 down minus 1 down
- 40 25 down divided by 6 down
- 43 21 across plus 27 across
- 44 Half of 14 across, then subtract 24 across
- 45 12 down divided by 39 down
- 46 2 down minus 5 across
- 47 Three-fourths of 17 down
- 49 47 down minus 32 down
- 50 Mean of 40 across and 21 across

Solution:

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