

CrossFigure - Hard Puzzle # 15

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			58	

Across

- 1 A square
- 3 9 across minus 21 across
- 4 16 across plus half of 20 down
- 5 12 down minus 16 across
- 7 Mean of 8 down and 6 down
- 9 A square
- 10 Its digits total 1 down
- 13 Twenty-nine times a prime number
- 15 Mean of 1 down and 31 across
- 16 47 across plus 42 across
- 18 32 across minus 42 across
- 19 48 down minus 19 down
- 21 31 across minus 5 across
- 23 Mean of 32 across and 45 down
- 24 51 down times 13 down
- 26 18 across plus 15 across
- 28 4 across minus 42 across
- 29 A square
- 31 37 down plus 22 down
- 32 27 down divided by 37 down
- 33 4 across minus 40 across
- 36 Twice the result of 23 down plus 3 across
- 40 5 across plus half of 12 down
- 41 9 down minus 9 across
- 42 Mean of 32 across and 23 across
- 43 28 across minus 32 across
- 44 19 down minus 26 across
- 47 5 down minus 44 down
- 49 Last two digits are the same as 45 down
- 50 Fifty-eight times a prime number
- 52 2 down minus 1 across
- 53 34 down times 29 across
- 55 41 across plus 1 down
- 56 52 down plus 29 across
- 57 53 across plus 15 across
- 58 33 across plus 28 across

Down

- 1 17 down minus 22 down
- 2 Mean of 35 down and 23 across
- 5 Half of 49 down, then subtract 21 across
- 6 A square
- 8 23 across plus 2 down
- 9 16 across plus 44 down
- 11 Five times a prime number
- 12 26 across plus 54 down
- 13 2 down divided by 22 down
- 14 A prime number
- 17 58 across minus 54 down
- 19 54 down plus 17 down
- 20 45 down plus 32 across
- 22 26 across minus 41 across
- 23 Twenty-nine times a prime number
- 24 Four times a prime number
- 25 Four times a prime number
- 27 Forty-five times 20 down
- 28 31 across minus 54 down
- 30 27 down divided by 23 across
- 34 24 across divided by 51 down
- 35 Forty-two times 33 across
- 37 Mean of 30 down and 13 down
- 38 Mean of 52 down and 12 down
- 39 Mean of 11 down and 28 across
- 40 35 down minus half of 25 down
- 44 43 across times 44 across
- 45 Half of 42 across, then subtract 18 across
- 46 Twice the result of 56 across minus 31 across
- 48 Same as 3 across
- 49 Fifty-eight times 43 across
- 51 A square
- 52 33 across plus half of 17 down
- 54 Sum of digits in 13 across

Solution:

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