

CrossFigure - Hard Puzzle #42

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	59
60					61							62	
	63		64		65					66			
67						68			69				

Across

- 1 25 across times 18 down
- 5 40 across minus 15 down
- 7 Forty-seven times a prime number
- 11 Twenty-one times 4 down
- 12 A prime number
- 14 47 across plus 17 across
- 15 A prime number
- 16 60 across plus half of 13 down
- 17 3 down divided by forty-nine
- 19 Twelve times a prime number
- 21 Mean of 58 down and 55 down
- 22 One thousand eight hundred seventy-one more than 31 down
- 23 Mean of 66 down and 53 across
- 25 Last two digits are the same as last two digits of 48 across
- 26 Mean of 59 down and 4 down
- 28 Twice the result of 11 across plus 66 across
- 30 Mean of 44 across and 36 down
- 31 67 across divided by 62 across
- 33 Mean of 40 across and 8 down
- 34 Sixty-five times a prime number
- 37 8 down plus 47 across
- 38 40 across minus 31 across
- 39 Twenty times a prime number
- 40 48 across minus 11 across
- 41 62 across divided by 18 down
- 42 Mean of 14 across and 42 down
- 44 22 down minus 56 down
- 47 Twice the result of 65 across minus 34 across
- 48 49 across minus 36 down
- 49 27 down divided by 68 across
- 51 Mean of 55 down and 33 across
- 53 46 down plus half of 20 down
- 57 Twelve times a prime number
- 60 Three times a prime number
- 61 2 down minus 33 across
- 62 Twenty-eight times 15 down
- 63 Mean of 25 across and 30 across
- 65 One thousand one hundred seven less than 52 down
- 66 23 across minus 62 across
- 67 5 across times 62 across
- 68 40 across divided by four
- 69 Mean of 7 across and 23 across

Down

- 2 61 across plus 64 down
- 3 Ninety-nine times 11 across
- 4 Mean of 15 down and 47 across
- 5 61 across plus 11 across
- 6 32 down minus 37 across
- 8 38 across plus 36 down
- 9 Fourteen times a prime number
- 10 19 across minus 41 across
- 12 Rearranged digits of 66 across
- 13 Mean of 30 across and 53 across
- 15 14 across minus 42 down
- 18 66 down plus 45 down
- 20 25 across minus 36 down
- 22 Twice the result of 58 down minus 63 across
- 24 31 down minus 57 across
- 25 59 down plus 45 down
- 26 Half of 5 down, then subtract 26 across
- 27 Three hundred twenty more than 22 across
- 29 Half of 22 across, then subtract 48 across
- 30 Half of 21 across, then subtract 15 down
- 31 Two thousand one hundred ninety-one less than 27 down
- 32 Seven times 56 down
- 35 31 down minus 57 across
- 36 15 across minus 66 across
- 42 14 across minus 66 down
- 43 30 across minus 40 across
- 45 62 across divided by twenty-one
- 46 Twenty-seven times a prime number
- 48 Twelve times a prime number
- 50 Ten thousand five hundred forty-nine more than 7 across
- 51 40 across minus 8 down
- 52 A prime number
- 53 30 across minus 4 down
- 54 51 across minus 11 across
- 55 Thirty-one times a prime number
- 56 68 across plus 23 across
- 58 A prime number
- 59 A square
- 64 Same as 33 across
- 66 Half of 59 down, then subtract 4 down

Solution:

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