

CrossFigure - Hard Puzzle #29

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			

Across

- 1 Eight times a prime number
- 3 Forty-five times a prime number
- 9 6 down divided by 26 across
- 10 Twice the result of 45 across minus 3 across
- 12 25 across plus 11 down
- 14 Three times 29 across
- 16 Mean of 33 across and 28 across
- 19 23 across minus 32 across
- 21 Mean of 9 across and 25 across
- 23 Mean of 41 down and 40 down
- 24 37 across minus 15 down
- 25 Mean of 43 down and 34 down
- 26 Mean of 24 across and 29 down
- 27 Twice the result of 42 down minus 44 down
- 28 8 down minus 25 across
- 29 38 down plus 7 down
- 32 Twice the result of 8 down minus 38 down
- 33 9 across minus 14 down
- 35 Twice a prime number
- 36 43 down plus half of 1 down
- 37 12 across plus 2 down
- 39 Thirteen times a prime number
- 45 Thirteen times a prime number
- 46 Four times a prime number

Down

- 1 23 across minus 41 down
- 2 46 across minus 1 across
- 4 36 across minus 11 down
- 5 14 across minus 39 across
- 6 First two digits are the same as first two digits of 16 across
- 7 12 down minus 30 down
- 8 2 down plus 32 across
- 9 Mean of 31 down and 5 down
- 11 42 down plus 29 down
- 12 Thirty-three times a prime number
- 13 A prime number
- 14 Twice the result of 12 across minus 29 across
- 15 Mean of 38 down and 43 down
- 17 Ninety times a prime number
- 18 Eight thousand sixty-nine less than 17 down
- 20 25 across times 4 down
- 22 10 across minus 23 across
- 29 41 down minus 25 across
- 30 First two digits are the same as first two digits of 29 across
- 31 22 down minus 35 across
- 34 28 across minus 14 down
- 36 22 down divided by thirty-two
- 38 Mean of 8 down and 2 down
- 40 23 across plus 1 down
- 41 Twice 14 down
- 42 Mean of 25 across and 11 down
- 43 1 down plus 11 down
- 44 2 down plus 4 down

Solution:

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