

CrossFigure - Challenging Puzzle #31

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
			24					
25	26						27	28
29			30					31

Across

- 1 8 down plus 19 down
- 3 22 across times 28 down
- 4 11 down minus 22 across
- 6 Five times a prime number
- 7 A prime number
- 8 17 down minus 19 down
- 12 31 across minus 21 down
- 13 Fourteen times a prime number
- 14 9 down minus 18 down
- 17 Mean of 12 across and 4 down
- 18 6 across plus half of 27 across
- 22 3 across divided by 1 across
- 25 8 down plus 31 across
- 27 Four times a prime number
- 29 Twice the result of 16 down plus 19 down
- 30 Twice the result of 13 across plus 4 down
- 31 9 down plus 18 down

Down

- 1 Thirty-nine times a square
- 2 25 across minus 8 down
- 4 A cube
- 5 17 down plus 26 down
- 8 28 down minus 19 down
- 9 7 across minus 11 down
- 10 20 down reversed
- 11 Mean of 31 across and 10 down
- 15 8 across divided by 12 across
- 16 15 down minus 29 across
- 17 5 down minus 17 across
- 18 2 down minus 9 down
- 19 A square
- 20 25 across minus 14 across
- 21 8 down minus 16 down
- 23 Mean of 24 across and 26 down
- 26 18 down plus 21 down
- 28 A prime number

Solution:

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