

CrossFigure - Challenging Puzzle #39

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		

Across

- 1 24 down plus 29 across
- 3 Mean of 19 down and 12 down
- 6 Half of 12 down
- 7 21 down plus 5 down
- 9 Twice the result of 12 down plus 8 down
- 11 Seventeen times a square
- 17 23 down minus 30 across
- 18 20 down divided by four
- 23 Nineteen times a prime number
- 25 Mean of 19 down and 10 down
- 27 Rearranged digits of 2 down
- 29 A prime number
- 30 Two hundred six less than 5 down
- 31 3 across plus half of 1 across

Down

- 2 Twice the result of 29 across plus 21 down
- 3 1 across plus 4 down
- 4 30 across divided by nine
- 5 Mean of 7 across and 31 across
- 6 Last two digits are the same as 8 down
- 8 18 across plus 17 across
- 10 Twice a prime number
- 12 2 down minus 28 down
- 13 Mean of 18 across and 15 down
- 14 5 down times 17 across
- 15 30 across minus 3 down
- 16 30 across plus 28 down
- 19 25 down minus 20 down
- 20 Mean of 6 across and 22 down
- 21 5 down minus 31 across
- 22 A square
- 23 23 across plus half of 18 across
- 24 Half of 7 across, then subtract 6 down
- 25 11 across plus half of 4 down
- 26 Twice the result of 15 down plus 13 down
- 28 Two more than 4 down

Solution:

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