

# CrossFigure - Challenging Puzzle #18

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						23			24	
					25						
			26	27			28	29			
30							31				

**Across**

- 1 Three times a prime number
- 8 14 across minus 21 down
- 9 5 across divided by 23 across
- 10 20 down plus half of 28 down
- 11 19 across times 25 across
- 13 31 across divided by fourteen
- 14 1 across minus half of 30 across
- 16 8 across minus 28 across
- 18 Twice the result of 16 down plus 17 down
- 19 Same as 12 down
- 22 26 down times 13 down
- 23 Thirty-nine times a square
- 25 Mean of 26 down and 12 down
- 26 22 across divided by 13 down
- 28 Twice the result of 29 down minus 21 down
- 30 Last two digits are the same as 27 down
- 31 Three thousand six hundred two less than 30 across

**Down**

- 2 Eight times a prime number
- 3 Half of 2 down, then subtract 7 down
- 4 8 across plus 27 down
- 5 14 across plus 14 down
- 6 Mean of 5 down and 13 down
- 7 Thirty-two times a prime number
- 12 11 across divided by 25 across
- 13 14 across minus 9 across
- 14 A square
- 15 14 across reversed
- 16 Mean of 16 across and 15 down
- 17 21 down plus 9 across
- 20 19 across minus 28 down
- 21 14 down minus 13 down
- 22 Twenty-four times a prime number
- 24 Twice the result of 22 down plus 4 down
- 26 Same as 26 across
- 27 Mean of 9 across and 12 down
- 28 31 across divided by 13 across
- 29 16 across plus 3 down

**Solution:**

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