

CrossFigure - Challenging Puzzle #13

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	

Across

- 1 Mean of 13 across and 24 across
- 2 Twice the result of 10 across plus 6 down
- 3 A square
- 7 Seventy-two times a prime number
- 10 A cube
- 11 18 down plus 12 down
- 13 16 down minus 10 down
- 14 16 down minus half of 15 across
- 15 Twice a prime number
- 17 Seventy times a square
- 20 Twice a prime number
- 22 10 across minus 24 across
- 23 Mean of 14 across and 21 down
- 24 All digits are the same

Down

- 1 9 down divided by 23 across
- 4 23 across plus 1 across
- 5 Mean of 19 down and 3 across
- 6 A square
- 8 Mean of 20 across and 24 across
- 9 Last two digits are the same as last two digits of 19 down
- 10 Mean of 4 down and 13 across
- 12 Five times 14 across
- 16 Three times a prime number
- 18 A cube
- 19 Seven times a prime number
- 21 22 across plus 1 across

Solution:

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