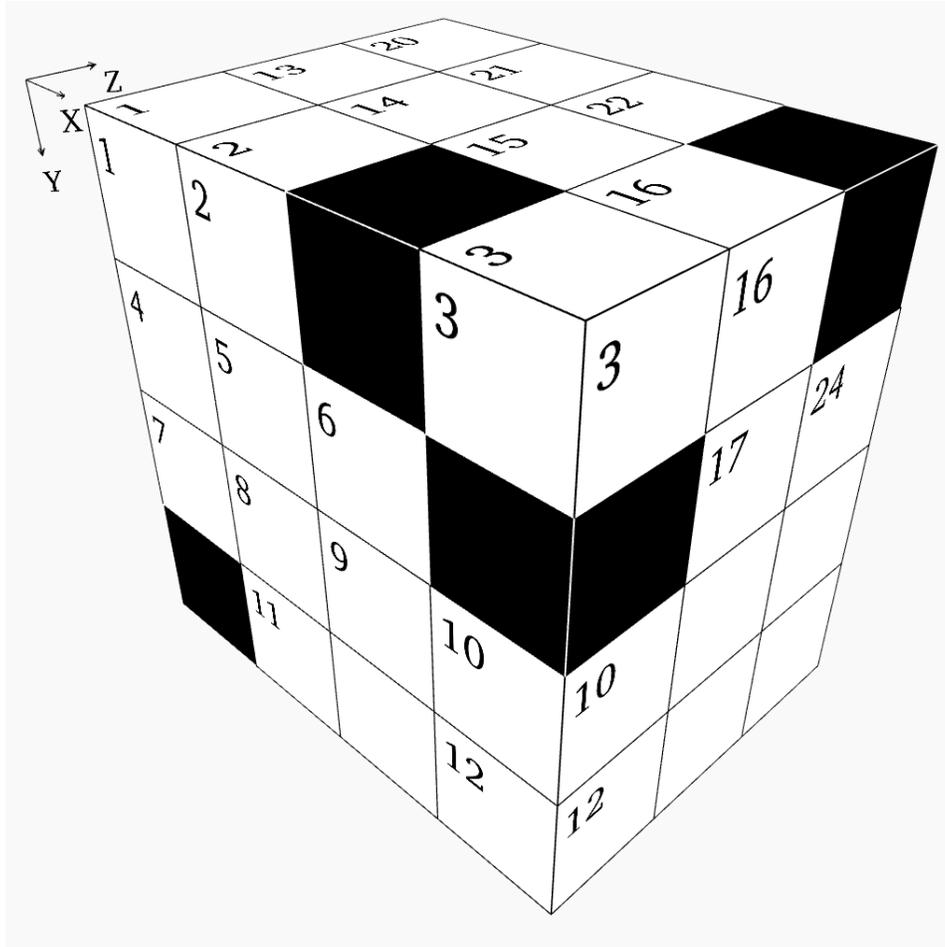


Box - Challenging Puzzle #74



This puzzle is like a crossword, but with numbers. Each digit occupies a 3D block and can be a part of a "word" in the X,Y, and Z directions.

Rules:

1. "Words" may not start with a zero.
2. "Words" in the X direction read from left to right.
3. "Words" in the Y direction read from top to bottom.
4. "Words" in the Z direction read from front to back.
5. There is one unique solution which satisfies all the clues given below.
6. Some "words" may not have clues. They will be determined by the "words" which intersect them.

If we take the box pictured above and divide it into individual X-Y layers, we will get these planes:

1	2		3	13	14	15	16	20	21	22	
4	5	6					17	23			24
7	8	9	10	18				25			
	11		12	19						26	

X Direction

- 1 Y1 minus Z3
- 4 Seven times a prime number
- 7 Fifteen more than Y20
- 11 Rearranged digits of Z1
- 13 Consecutive digits unordered
- 18 Mean of Y2 and X7
- 19 Z15 minus Y18
- 20 Y1 reversed
- 23 One thousand four hundred fourteen more than Y14
- 25 Twenty-six times a prime number
- 26 Z5 divided by Y18

Y Direction

- 1 X20 reversed
- 2 One thousand nine hundred ninety-one less than X13
- 6 Six less than X4
- 10 X26 plus X19
- 14 Eighty-four times Z11
- 16 Nine hundred sixty-eight more than X23
- 18 X1 reversed
- 20 Y2 minus X11
- 21 X18 divided by fifty-five
- 22 A prime number
- 24 Mean of Z15 and X11

Z Direction

- 1 Z10 minus Y10
- 2 Half of X23, then subtract X25
- 3 Nine times X26
- 5 Its digits total Z17
- 7 A prime number
- 8 Four times Z10
- 9 X18 divided by X26
- 10 Twice a prime number
- 11 Mean of Y18 and Z3
- 12 X4 minus half of Z11
- 15 Z1 minus Y21
- 17 Mean of Z19 and X26
- 19 Z15 reversed

Solution:

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