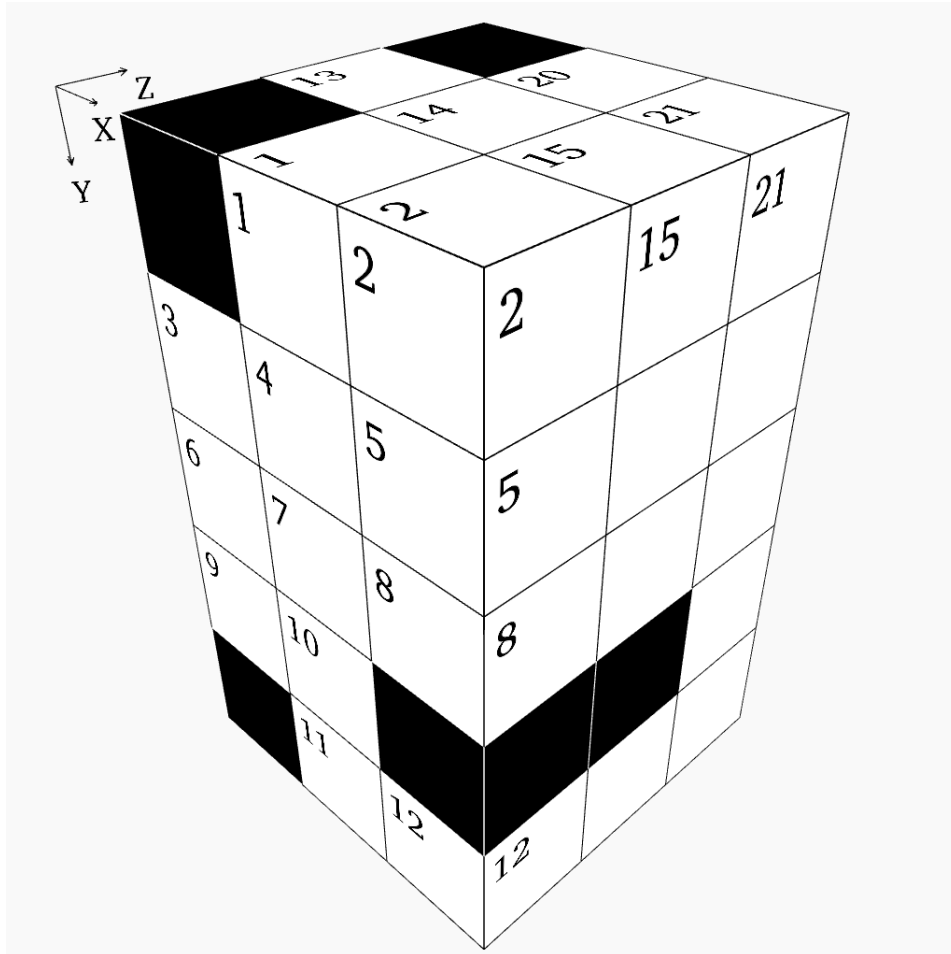


Difficulty: ★☆☆☆☆

Box - Intermediate Puzzle #8



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

X Direction

- 1 Z7 minus Y23
- 3 Three times X11
- 6 Mean of Z5 and Z2
- 9 Y23 plus X22
- 11 Three-fifths of X18
- 13 Fifty-nine more than X19
- 16 Five times a prime number
- 17 Mean of Z9 and X6
- 18 Mean of Y15 and Y20
- 19 Z5 plus half of Z1
- 20 Z7 divided by four
- 22 X9 minus Z19
- 24 Fifty times Z10

Y Direction

- 1 Fifteen times a prime number
- 2 A square
- 3 Mean of X3 and X18
- 13 Twice the result of Y21 plus Z8
- 14 A prime number
- 15 Three times a prime number
- 20 X1 minus X20
- 21 Eight thousand fifty-seven less than Y14
- 23 Y20 plus Z6

Z Direction

- 1 Twenty-seven times X22
- 2 Mean of Z11 and X11
- 3 Z12 divided by thirty
- 4 A prime number
- 5 A square
- 6 Z19 minus Y20
- 7 X1 plus Z19
- 8 Seven times a prime number
- 9 Fifty-three more than Z4
- 10 X18 divided by nine
- 11 Fifty-seven times Z10
- 12 Twenty times Y20
- 19 Same as Y23

Solution:

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