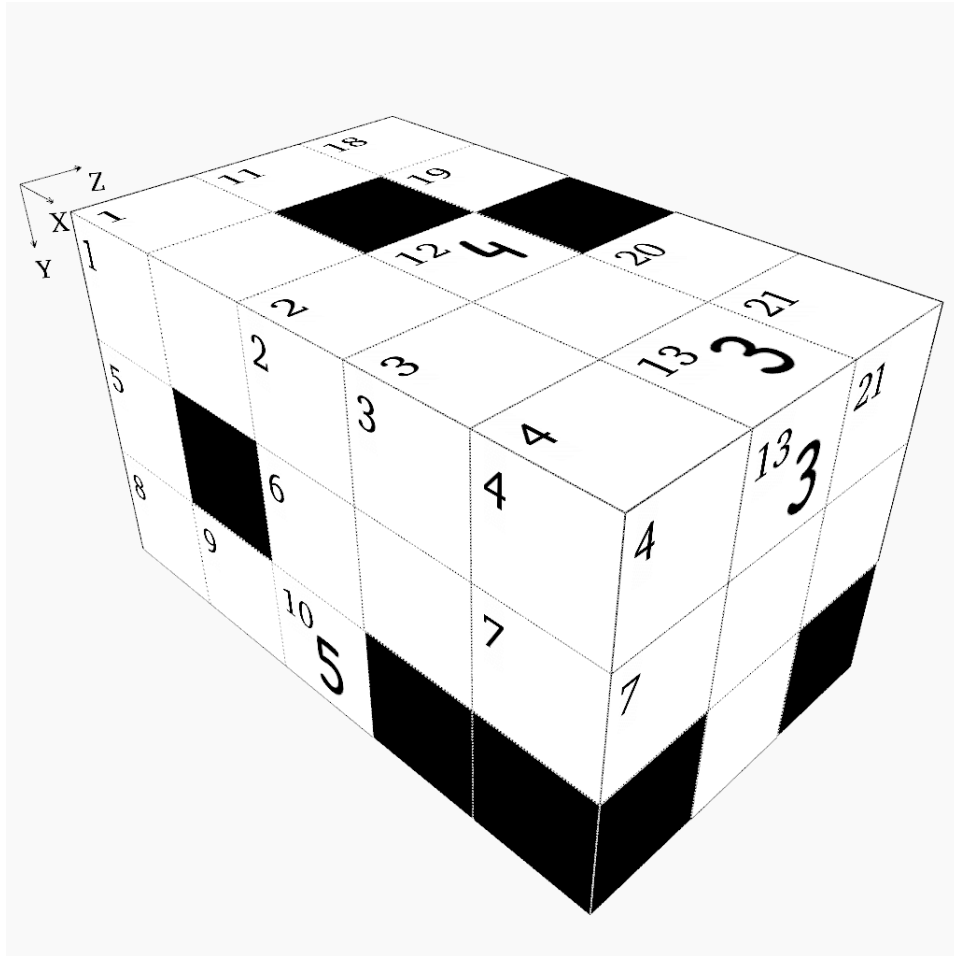


Difficulty: ☆☆☆☆☆

Box - Beginner Puzzle #7



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

X Direction

- 1 Last two digits are the same as last two digits of X12
- 6 Seven times a prime number
- 8 Y2 minus Y19
- 12 Z1 minus Y3
- 14 Y2 minus Z15
- 16 Two thousand seven hundred forty-seven more than X1
- 18 X20 plus Y15
- 20 Z5 minus Y1
- 22 Mean of Y13 and Y3
- 24 Z9 plus Y15

Y Direction

- 1 Z5 minus Y4
- 2 X14 plus half of X18
- 3 A square
- 4 Same as X20
- 11 Y2 minus Y19
- 12 Y11 plus X22
- 13 Z4 minus Y4
- 15 X18 minus Y4
- 18 Nine times a prime number
- 19 Thirty-four times Y23
- 21 Consecutive digits in descending order
- 23 Y15 minus Z17

Z Direction

- 1 Z5 minus Y3
- 2 Twice a prime number
- 3 X20 times Z17
- 4 X20 plus Y13
- 5 X1 divided by ninety-three
- 6 Y11 plus Y12
- 7 Four times a prime number
- 8 Y13 minus half of Y21
- 9 Ten times a prime number
- 10 Mean of Y12 and Z3
- 15 X6 minus Y18
- 17 Z3 divided by Y4

Solution:

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