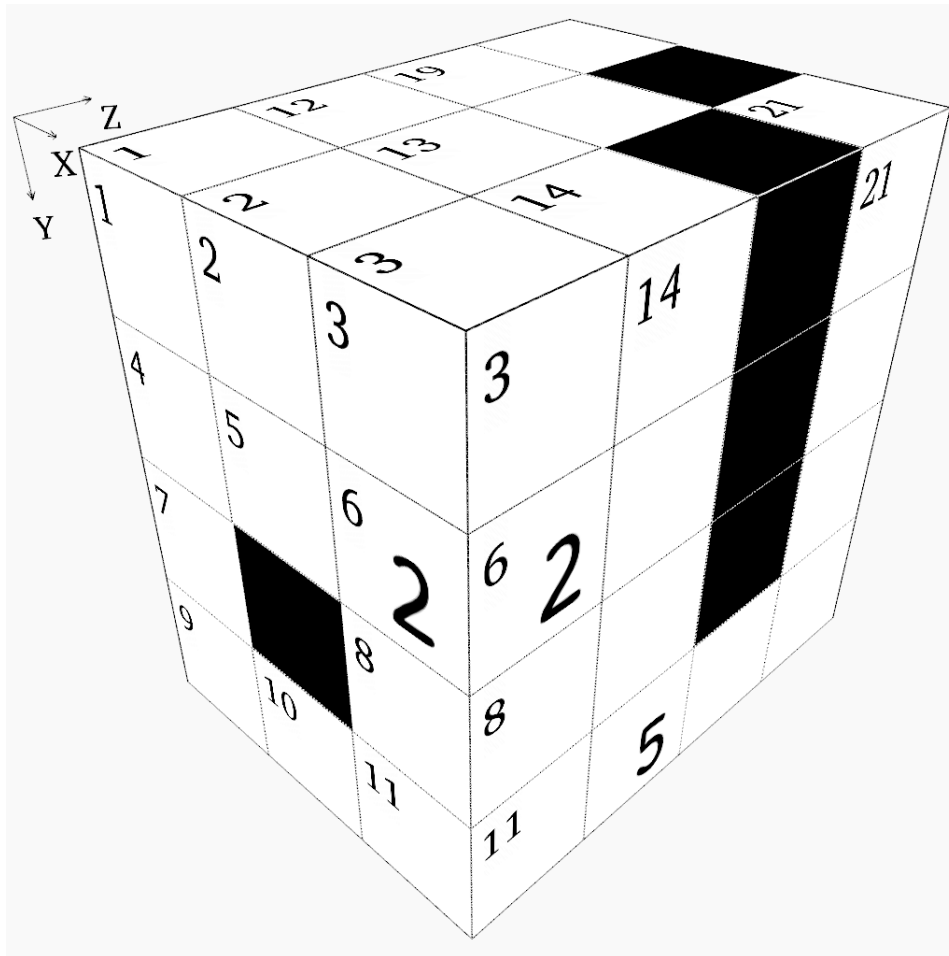


Difficulty: ☆☆☆☆☆

Box - Beginner Puzzle #2



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

X Direction

- 1 Rearranged digits of X23
- 4 Fifty-six times Z10
- 9 Twice a prime number
- 12 Seven times a prime number
- 15 Two hundred three more than X24
- 16 Nine times a prime number
- 18 Twenty-one times a square
- 19 Mean of Y23 and Z3
- 20 X4 minus Z17
- 22 Twice Y23
- 23 Mean of X24 and Y23
- 24 Fifteen times a prime number

Y Direction

- 1 Thirty-seven times a prime number
- 2 Z2 divided by eleven
- 3 Z2 times Z10
- 12 Five times a prime number
- 13 Twice the result of Z11 minus X22
- 14 Five times a prime number
- 19 Twenty-five times a prime number
- 21 Mean of Y12 and Y14
- 22 A prime number
- 23 A prime number

Z Direction

- 1 Mean of Y1 and Y19
- 2 Eleven times a prime number
- 3 Mean of Y2 and X19
- 4 Forty-one times Y2
- 5 A prime number
- 6 X4 divided by twenty-four
- 7 Twice a prime number
- 8 X20 minus Z3
- 9 Nineteen times a prime number
- 10 Consecutive digits in ascending order
- 11 Seventy-five times a prime number
- 17 Fourteen times Z8

Solution:

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