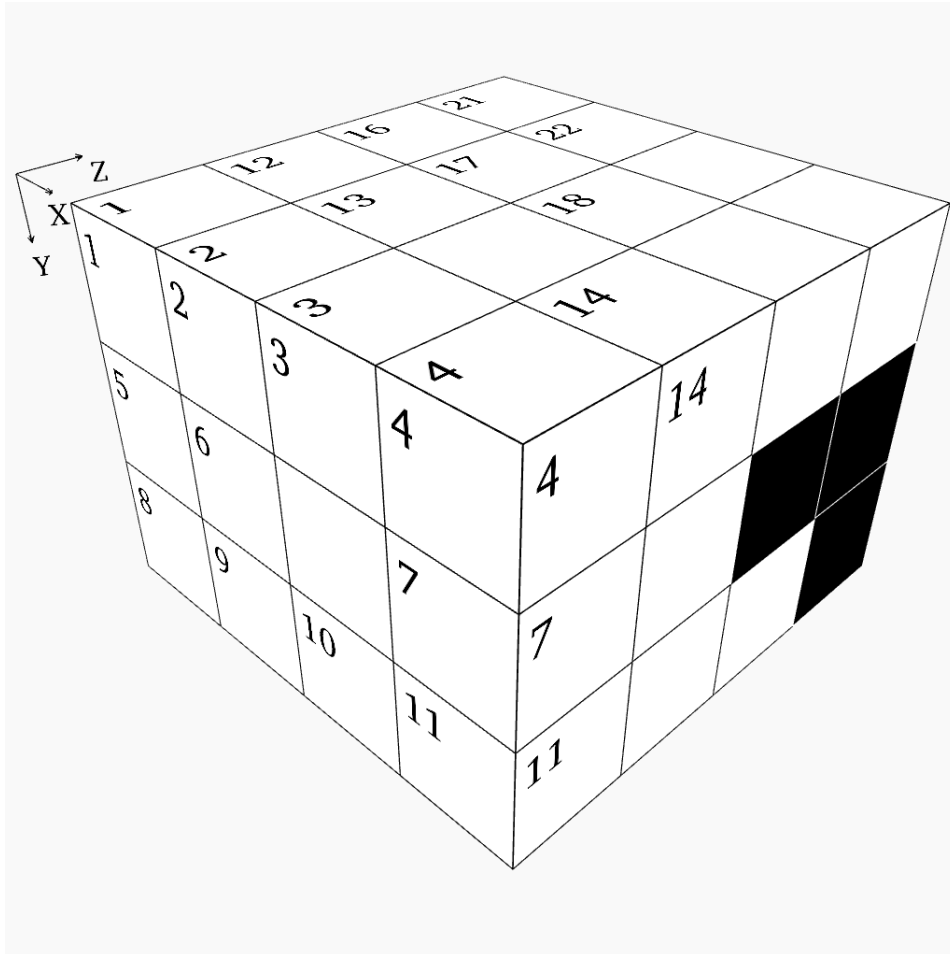


## Box - Intermediate Puzzle #26



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

**X Direction**

- 1 Sixteen times a prime number
- 5 Five times a prime number
- 8 Mean of X23 and Z3
- 12 Seventy-five times a prime number
- 15 X24 plus Z7
- 16 Z1 plus half of Z4
- 19 Eleven times Z19
- 20 Last two digits are the same as last two digits of Z1
- 21 Thirty-eight times a prime number
- 23 Seven times Z20
- 24 Y22 minus Y1

**Y Direction**

- 1 Y16 minus X19
- 2 Fifty-two times Z20
- 3 Y4 plus X19
- 4 Z10 minus X8
- 13 Eighty-one times Z20
- 14 Thirty-two times a prime number
- 16 X20 minus X15
- 17 A prime number
- 18 Y17 plus X19
- 21 X12 minus half of Z3
- 22 X5 minus half of Y2

**Z Direction**

- 1 Rearranged digits of X12
- 2 Sixty-nine times a prime number
- 3 Eight hundred seventy-eight less than X1
- 4 Twice a prime number
- 6 Twenty-two times a prime number
- 7 Y22 minus Y18
- 9 Consecutive digits unordered
- 10 Ten times a prime number
- 11 Rearranged digits of Y4
- 19 Y13 divided by Z7
- 20 Two-thirds of Z19

**Solution:**

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