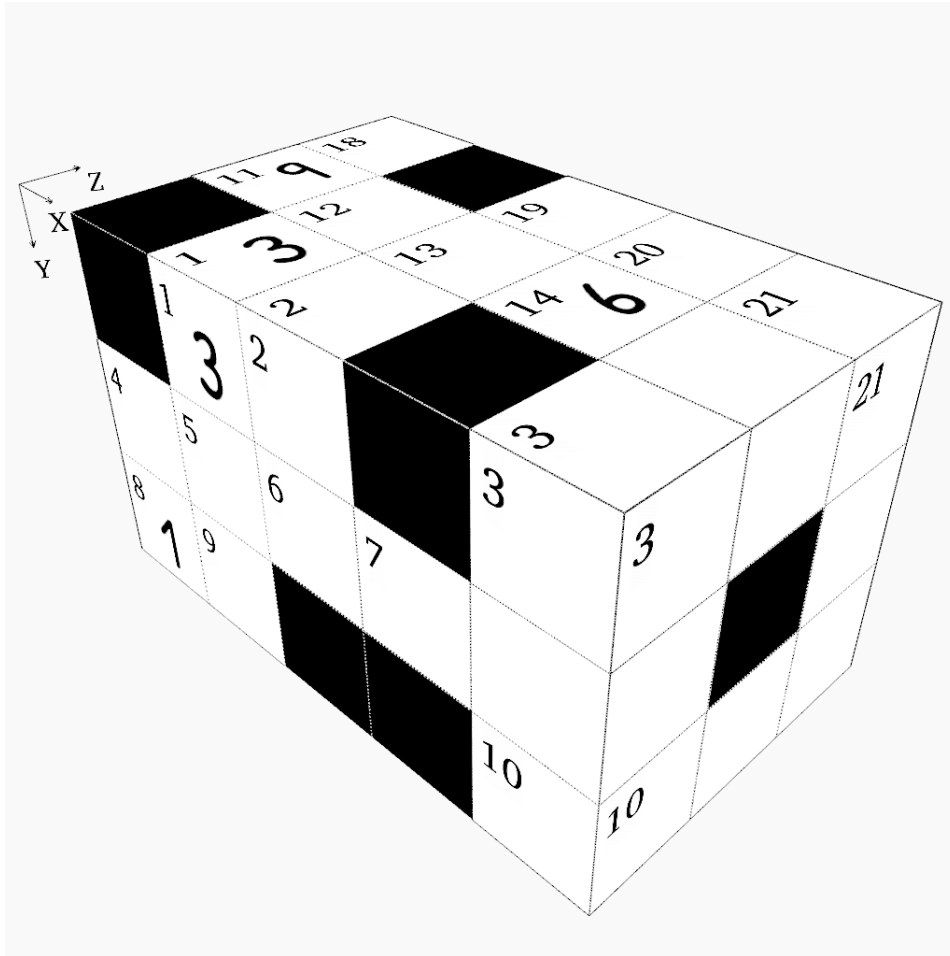


Difficulty: ☆☆☆☆☆

Box - Beginner Puzzle #24



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	11	12	13	14		18		19	20	21
	3				9			6						
4	5	6	7		15					22	23	0		
8	1	9				16	17			24		5		

X Direction

- 1** Z17 minus Y4
- 4** Forty-two times a prime number
- 8** Two-thirds of Y4
- 15** Three times a prime number
- 19** Z9 minus Y4
- 24** Y11 plus Y1

Y Direction

- 1** X24 minus Z11
- 2** Y13 minus Y21
- 3** Y14 minus X24
- 4** Y12 divided by twenty-eight
- 11** Z7 minus Z2
- 12** Forty-two times X8
- 13** Same as Y19
- 14** A prime number
- 18** Eleven times X8
- 19** Y2 plus Y21
- 20** Z6 minus Z1
- 21** X22 divided by Y18
- 23** A square

Z Direction

- 1** X8 plus Y4
- 2** X11 divided by Z4
- 3** A prime number
- 4** Mean of Z14 and Y21
- 5** Two less than Y12
- 6** X1 plus Z14
- 7** Mean of Z9 and Z5
- 9** A square
- 10** Twice the result of Y13 minus Z3
- 11** Z7 minus Z2
- 14** Mean of Y2 and Y11
- 17** Y2 plus X8

Solution:

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