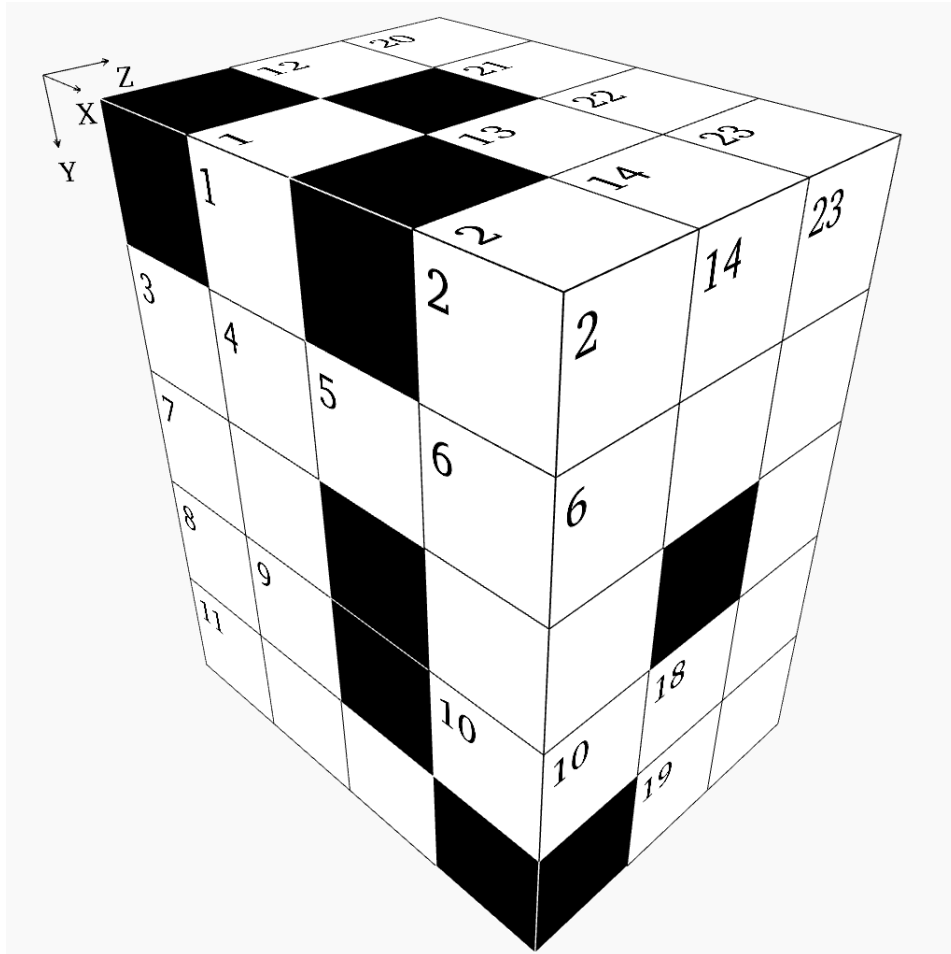


## Box - Challenging Puzzle #24



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	12		13	14	20	21	22	23
3	4	5	6	15					24		
7						16			25		
8	9		10	17			18	26			
11							19	27			

### X Direction

- 3** Sixty-two times a prime number
- 7** Half of Y18
- 8** Z16 minus Z12
- 11** Z11 minus Z7
- 13** Y14 reversed
- 15** Twice a prime number
- 17** A prime number
- 20** Seventeen times Z6
- 24** Twice a prime number
- 25** X15 minus Y3
- 26** Mean of Z19 and Z3
- 27** X20 minus X11

### Y Direction

- 1** Y23 plus Z9
- 2** First two digits are the same as Z13
- 3** X24 times Y14
- 12** Y13 times Z7
- 13** Four times a prime number
- 14** Mean of X7 and Y26
- 18** Y2 divided by Z19
- 21** Eleven times a prime number
- 22** Five times a prime number
- 23** Fifty-seven times a prime number
- 26** Y14 plus X13

### Z Direction

- 2** First two digits are the same as Z13
- 3** Mean of X26 and Y26
- 4** A prime number
- 5** Z4 minus half of Z10
- 6** Y14 plus Z5
- 7** Z12 minus Z13
- 8** Twice a prime number
- 9** Twice a prime number
- 10** Fourteen times a prime number
- 11** Mean of Z6 and X24
- 12** Z7 plus X13
- 13** Two-thirds of Y18
- 16** Three times a square
- 19** Three times a prime number

**Solution:**

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