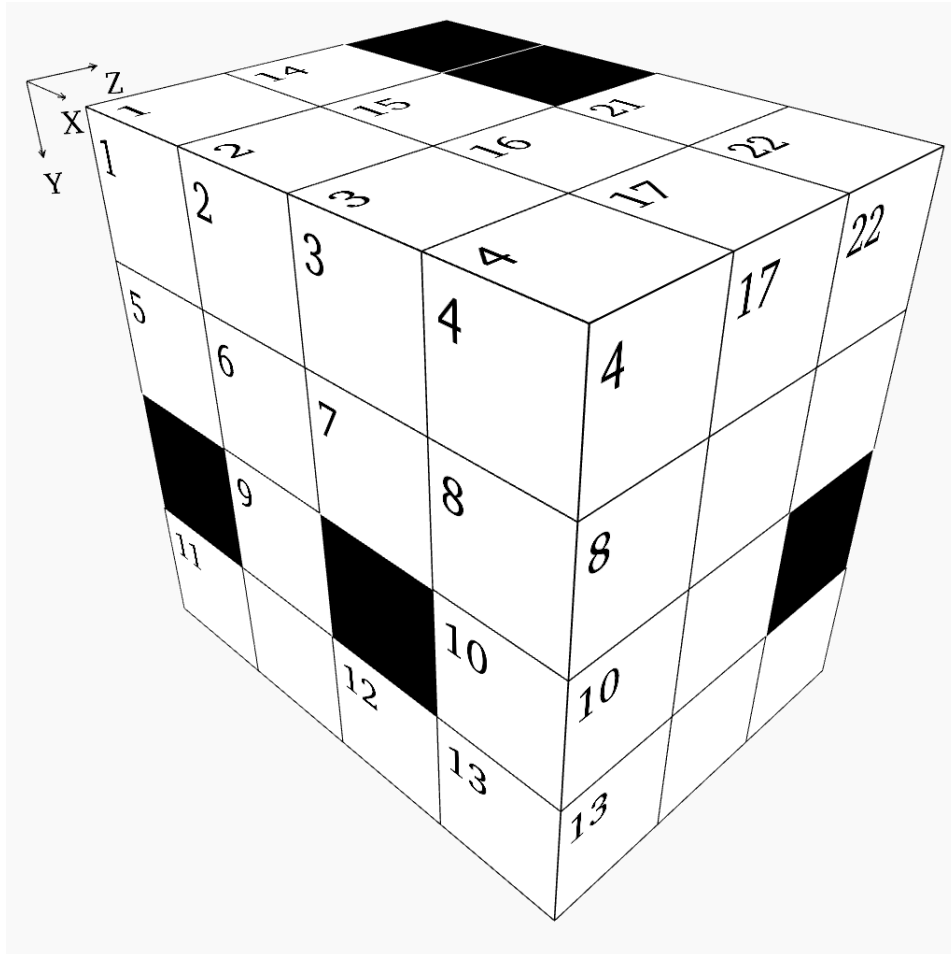


## Box - Intermediate Puzzle #27



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

**X Direction**

- 1 Mean of X26 and X19
- 5 X23 minus Z2
- 11 Twenty-four times a prime number
- 14 Three times a prime number
- 18 Twice the result of Y24 plus X25
- 19 A prime number
- 20 X18 divided by seven
- 21 Z9 minus half of X20
- 23 Twenty-eight times a prime number
- 25 Y17 divided by eighteen
- 26 Three times a prime number

**Y Direction**

- 1 Y21 minus Z1
- 2 Twice a prime number
- 3 Same as X21
- 4 Six times a prime number
- 15 Sixteen times a prime number
- 16 X25 times Z2
- 17 A square
- 21 Digits are the same as first two digits of Z3
- 22 Mean of Y1 and Z9
- 23 Z4 minus Y1
- 24 Mean of Z1 and X19

**Z Direction**

- 1 A square
- 2 X20 minus X25
- 3 Z11 plus X25
- 4 Half of Z8, then subtract Y22
- 6 Y17 divided by eight
- 7 Seventy-nine more than Z8
- 8 Six times a prime number
- 9 X19 minus Z13
- 10 Y16 minus Z3
- 11 Seven times a square
- 12 A prime number
- 13 Y2 minus Z11

**Solution:**

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