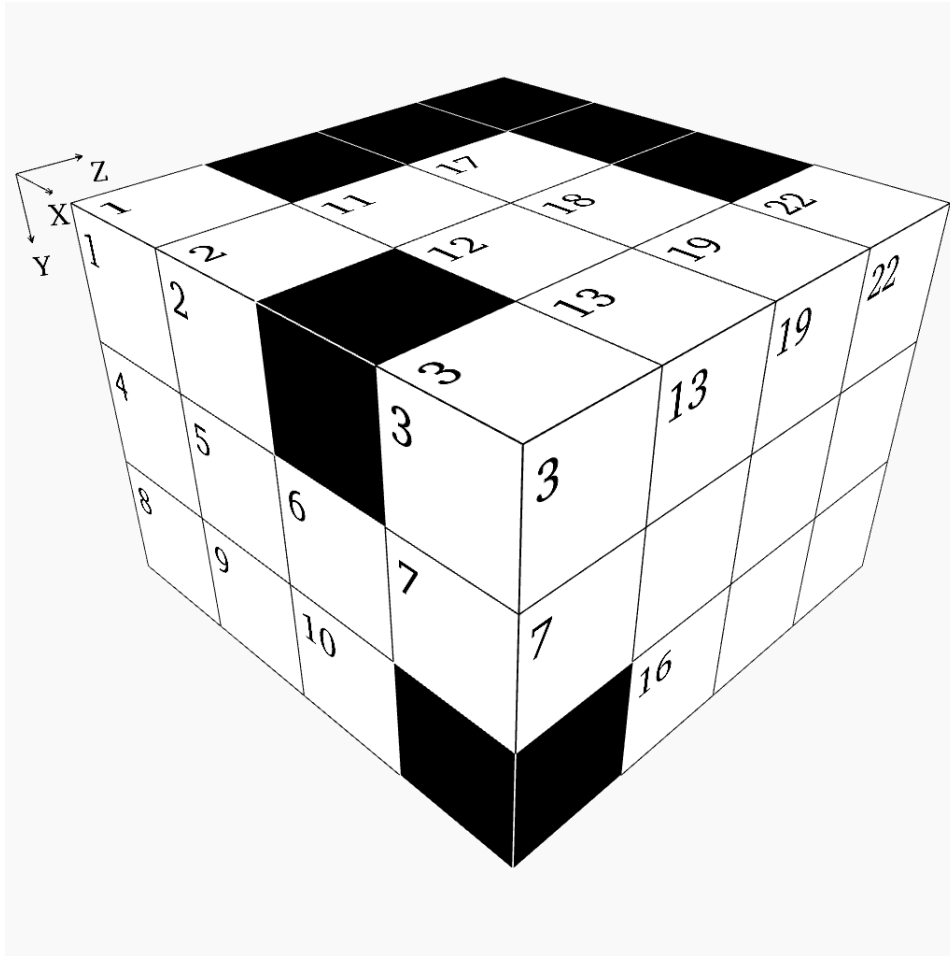


Difficulty: ★★☆☆☆

Box - Challenging Puzzle #6



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

X Direction

- 1 Y11 minus Y22
- 4 Ninety-one times a prime number
- 8 Z10 divided by Y24
- 11 X14 minus Y17
- 14 Y11 plus Y12
- 15 A prime number
- 17 Twice the result of Z4 minus Y19
- 20 Mean of Z3 and Z9
- 21 Y19 divided by twenty-one
- 23 A prime number
- 26 Three times a prime number

Y Direction

- 1 Four times a prime number
- 2 Three times a prime number
- 3 Y6 plus Y14
- 6 Y23 minus Y14
- 11 X11 minus Y14
- 12 Mean of Y2 and Y20
- 13 X14 minus Z12
- 14 Y25 minus Y20
- 17 Y12 minus Y14
- 18 A prime number
- 19 Seven times Y17
- 20 A square
- 22 Mean of X4 and Y20
- 23 Same as Y3
- 24 Y17 minus Z9
- 25 Twice the result of X14 minus Y13

Z Direction

- 2 Rearranged digits of X11
- 3 Twice the result of X20 minus Y3
- 4 A prime number
- 5 A prime number
- 6 Mean of Z3 and Z9
- 7 Nineteen times a prime number
- 8 Three times a prime number
- 9 X17 minus Y11
- 10 Seventy-two times a prime number
- 12 X21 minus Y24
- 16 A prime number

Solution:

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