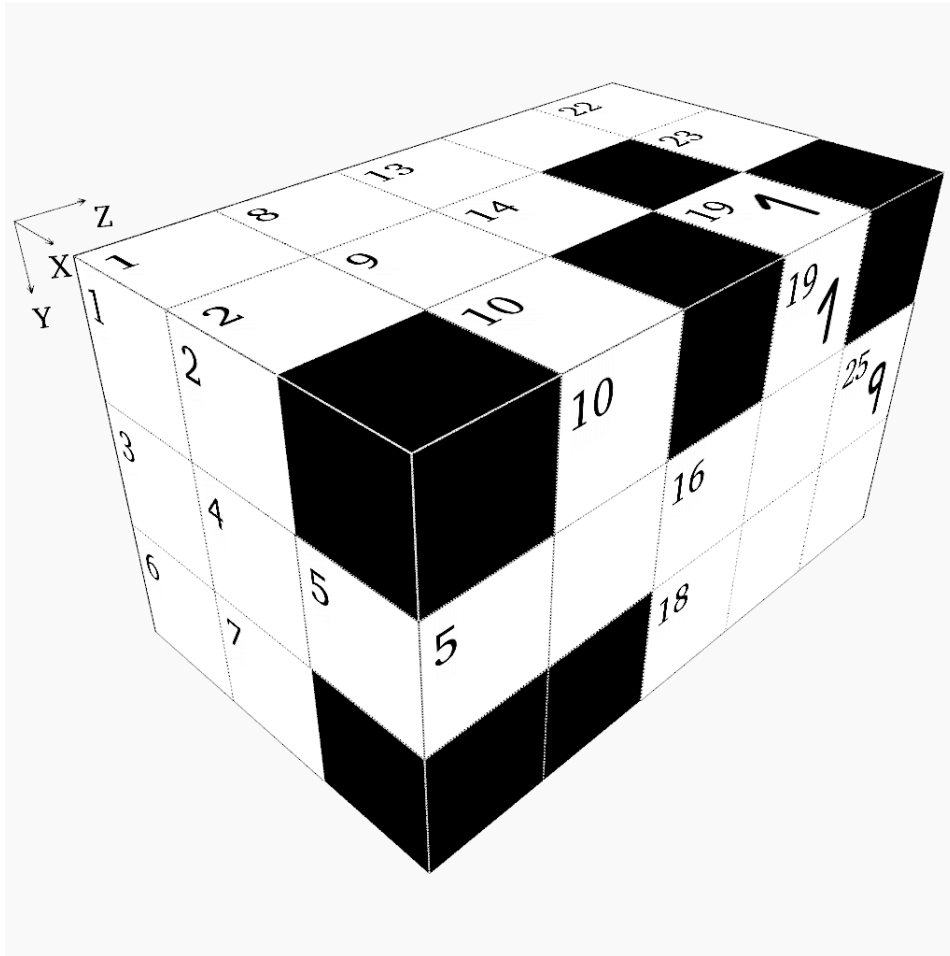


Difficulty: ☆☆☆☆☆

Box - Beginner Puzzle #14



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

X Direction

- 1 X8 divided by X22
- 3 X20 plus Z21
- 6 Mean of X22 and X1
- 8 Z18 plus Y10
- 11 Forty-seven times X12
- 12 A square
- 13 Y10 minus X22
- 15 Rearranged digits of Y19
- 17 X3 minus X20
- 20 Mean of X13 and Z6
- 21 Three times a prime number
- 22 Mean of X1 and Z6
- 24 X17 plus X13
- 26 A prime number

Y Direction

- 1 Three times X13
- 2 X21 minus X12
- 8 Mean of X15 and Y1
- 9 Eight times a prime number
- 10 Mean of Z6 and Y25
- 13 X22 plus X1
- 14 A prime number
- 16 Y20 minus Z6
- 19 Mean of Z3 and Y22
- 20 Square root of Y23
- 22 Seven times X12
- 23 A square
- 25 Mean of Z3 and Y16

Z Direction

- 1 A square
- 2 Consecutive digits in descending order
- 3 X8 minus Y1
- 4 Ninety-four times a prime number
- 5 Nineteen times a prime number
- 6 Y19 divided by thirteen
- 7 Forty-seven times a prime number
- 18 Half of X11, then subtract Y19
- 21 X24 minus X13

Solution:

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