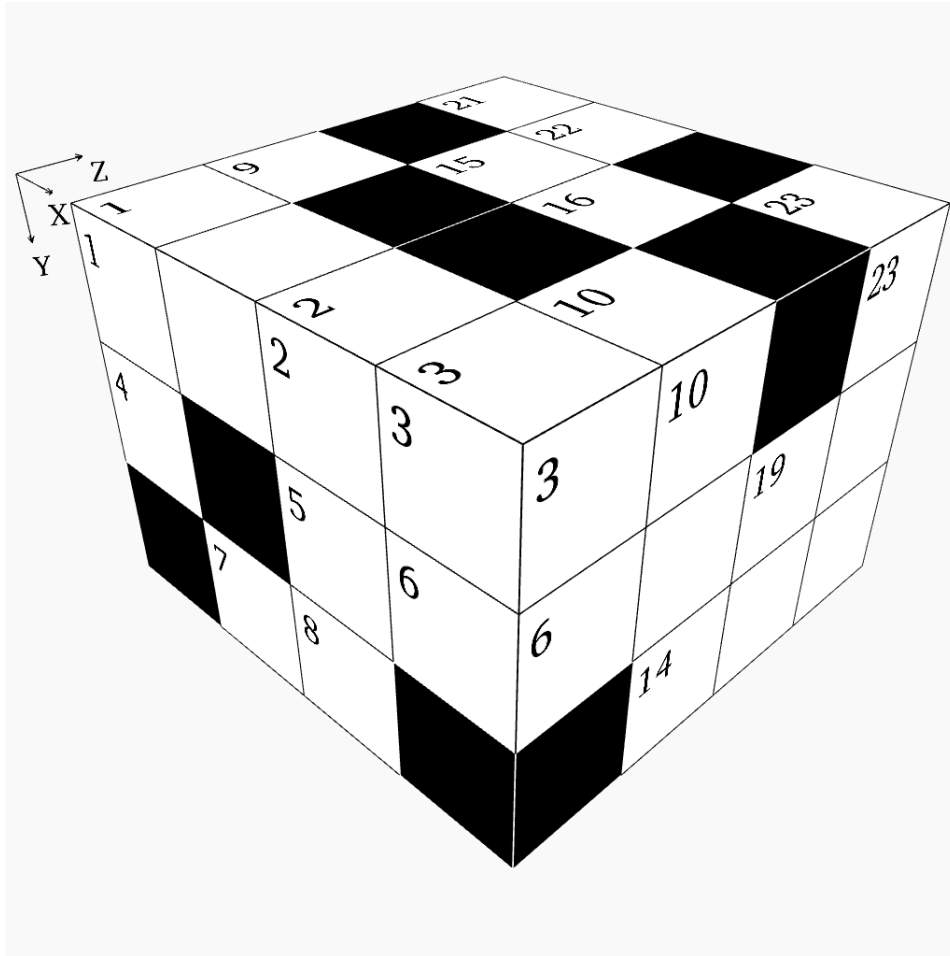


Box - Intermediate Puzzle #30



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

X Direction

- 1 Eight hundred twenty-nine more than X26
- 5 Z13 divided by seventy-six
- 7 Z15 minus Y17
- 11 Y19 minus X5
- 13 Twice a prime number
- 15 Y9 minus Y12
- 17 Twice a prime number
- 20 Twice a prime number
- 21 Mean of Y10 and Y12
- 24 Six times a prime number
- 26 Three times a prime number

Y Direction

- 1 Y10 minus Z3
- 2 Mean of Z13 and X7
- 3 Z14 divided by Z3
- 9 X21 plus half of Z15
- 10 Z15 plus X7
- 12 X21 minus Y19
- 15 A prime number
- 16 Half of X24, then subtract X17
- 17 Mean of X5 and Y3
- 19 Two-thirds of Y25
- 21 One hundred sixty-five more than Y15
- 22 Y9 plus Y23
- 23 A prime number
- 25 Twice the result of Y10 minus Y1

Z Direction

- 1 Y9 minus Y19
- 3 Three-fourths of Y19
- 4 Z6 minus X5
- 6 Six times a prime number
- 7 Y15 plus half of X20
- 8 Twice a square
- 12 Y23 plus X11
- 13 Fifty-two times a prime number
- 14 Three times Y16
- 15 Mean of X5 and Y9
- 18 A square

Solution:

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