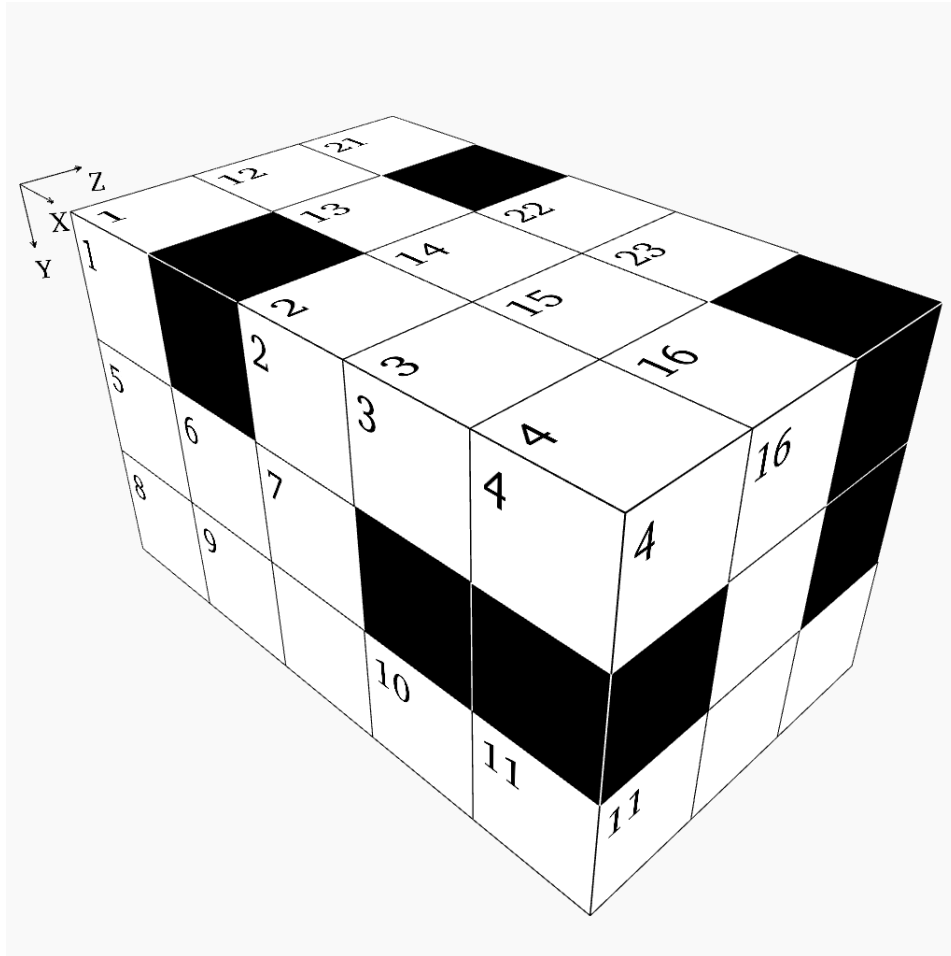


Box - Intermediate Puzzle #48



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

X Direction

- 2 Y22 plus half of Y21
- 5 Half of Z8, then subtract Y14
- 8 Eleven times a prime number
- 12 Three thousand eight hundred eighty-two less than X17
- 17 Nine times a prime number
- 19 Y23 minus X22
- 20 Y22 divided by five
- 22 Z10 divided by seven
- 24 Ninety times X19
- 26 Nine times a prime number

Y Direction

- 1 Y6 plus Z6
- 2 Z2 minus Y6
- 6 A square
- 12 Twice a prime number
- 13 Z2 minus Y25
- 14 X19 minus Z18
- 15 Twice Y23
- 16 Fifty-four times a prime number
- 21 Eight times a prime number
- 22 Fifteen times Y6
- 23 X12 divided by Z10
- 25 X19 minus Z18

Z Direction

- 1 Y21 divided by four
- 2 Twice the result of Z1 plus Y12
- 3 Y16 minus Z6
- 4 Three-fifths of X5
- 5 Mean of Y6 and Z1
- 6 Z1 minus X22
- 7 Consecutive digits unordered
- 8 Y13 minus Y15
- 9 Y2 plus Z18
- 10 Mean of Y25 and Z1
- 11 A prime number
- 18 X2 minus Z9

Solution:

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