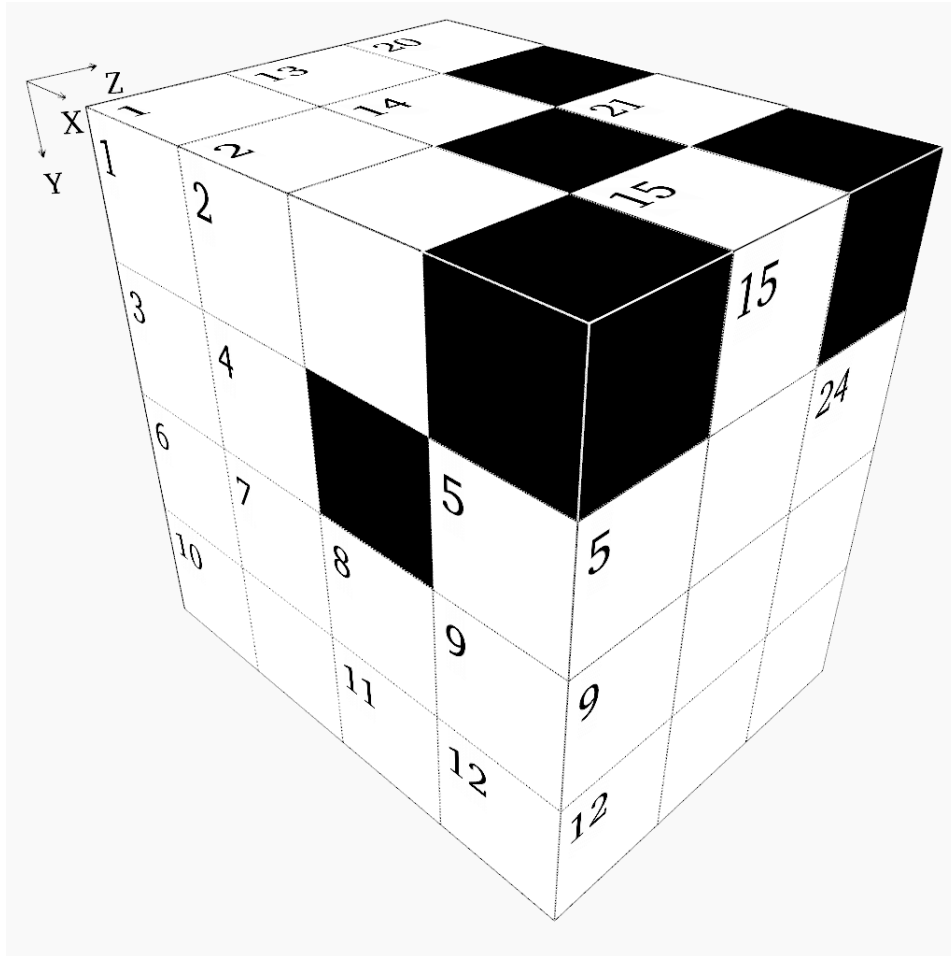


Difficulty: ★★★★★

Box - Beginner Puzzle #20



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

X Direction

- 1 Fourteen times a prime number
- 3 Y1 divided by X13
- 6 Thirty-one times Y23
- 10 Eighteen times a prime number
- 13 A square
- 16 A prime number
- 18 A prime number
- 19 Z10 divided by eight
- 22 Ninety-one times a square
- 25 Twenty-six times a prime number
- 26 Twice the result of Y2 plus Z9

Y Direction

- 1 Fourteen times a square
- 2 Seven times a prime number
- 5 Z11 reversed
- 8 Z9 divided by eighteen
- 14 Z5 plus Y23
- 15 Seventeen times a prime number
- 17 One hundred thirteen less than Z7
- 20 Half of X22, then subtract X1
- 21 Mean of Y15 and Y17
- 23 Five times X19
- 24 Eight times a prime number

Z Direction

- 1 A square
- 2 X3 minus Y8
- 4 Twice a prime number
- 5 Z2 plus Y5
- 7 Twice a prime number
- 8 Mean of Y5 and Z10
- 9 A square
- 10 Nineteen times Z2
- 11 A prime number
- 12 Twice a prime number
- 17 All digits are the same

Solution:

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