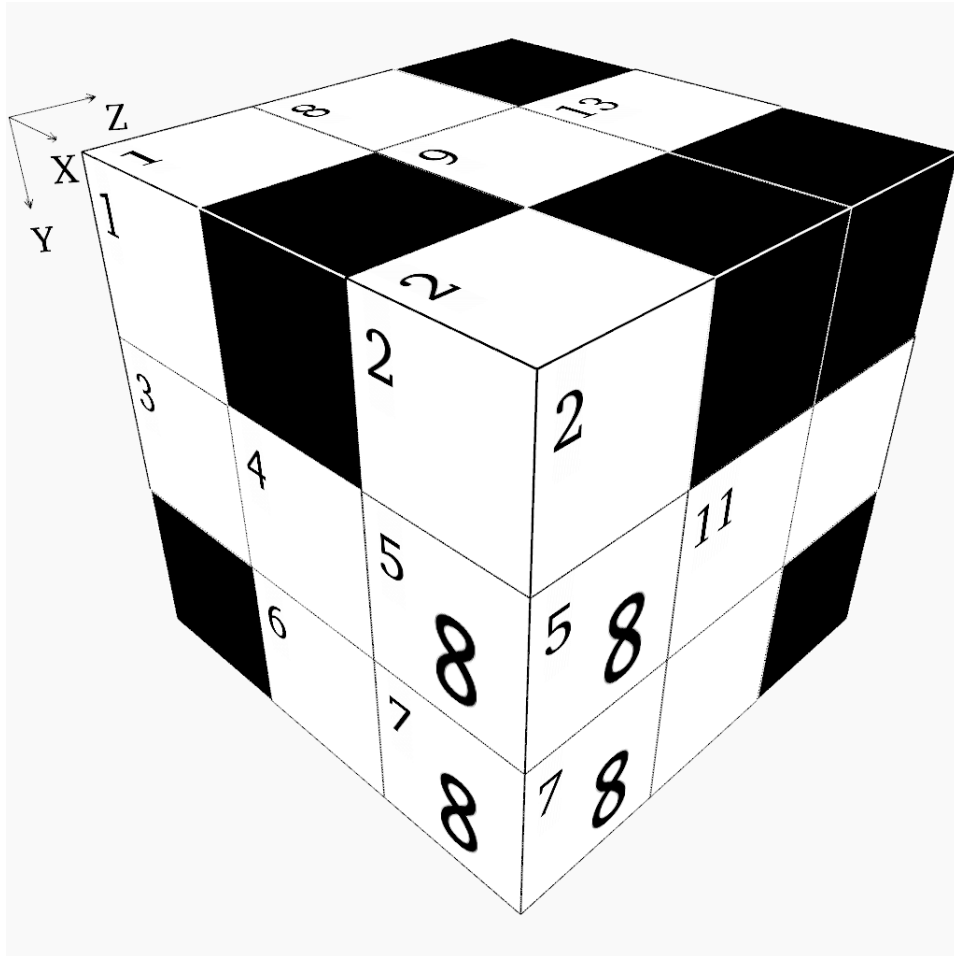


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #42



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 cube pictured above and divide it into individual X-Y layers, we will get these planes:

1		2	8	9			13	
3	4	5	8		10	11		14
	6	7	8	12	4		15	1

X Direction

- 3 Six times a prime number
- 6 Z5 minus X12
- 8 Half of Y9, then subtract Y2
- 10 Twice the result of X15 plus Y4
- 12 Twice a prime number
- 14 X6 divided by seven
- 15 A prime number

Y Direction

- 1 A prime number
- 2 Four times a prime number
- 4 A prime number
- 9 Sixteen times a prime number
- 11 Half of X3, then subtract Y13
- 13 A prime number

Z Direction

- 1 Same as X8
- 4 Seven times a prime number
- 5 Four times a prime number
- 6 Twenty-three times Z9
- 7 Twice Y1
- 9 X14 reversed
- 12 Mean of X6 and Z1

Solution:

4		1	4	4			1	
3	1	8		6	4		1	4
	9	8	7	4	6	1	3	