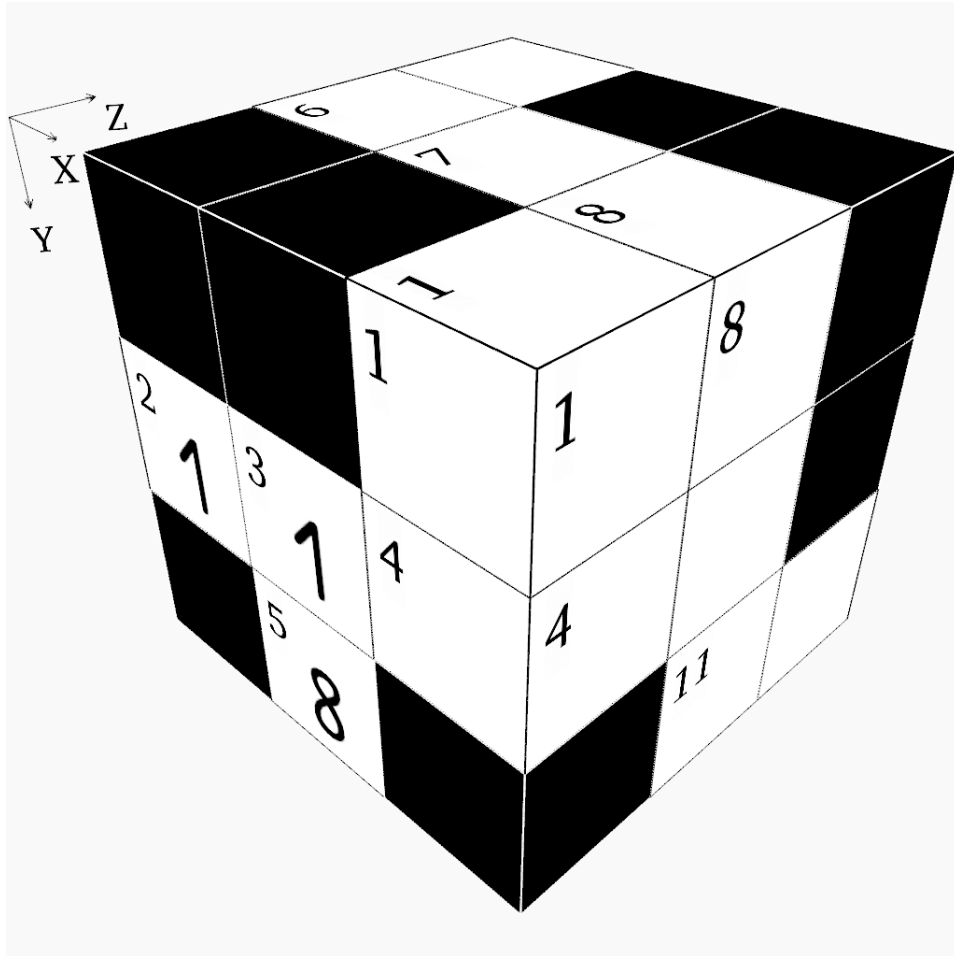


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #44



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	6	7	8			
2	1	3	1	4	9			
		5	8			10	11	

X Direction

- 2 Three times Z6
- 6 Twice a prime number
- 9 Fourteen times a prime number
- 10 Z11 reversed
- 13 Sixteen times a prime number

Y Direction

- 1 Z2 reversed
- 3 Y1 minus half of Z1
- 6 Y3 plus Z4
- 7 A palindrome
- 8 Three times a prime number
- 12 All digits are the same

Z Direction

- 1 Half of Z11
- 2 X9 divided by X10
- 3 Mean of Y7 and Z4
- 4 X13 divided by Z6
- 5 A prime number
- 6 A prime number
- 11 Z3 minus half of Y6

Solution:

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