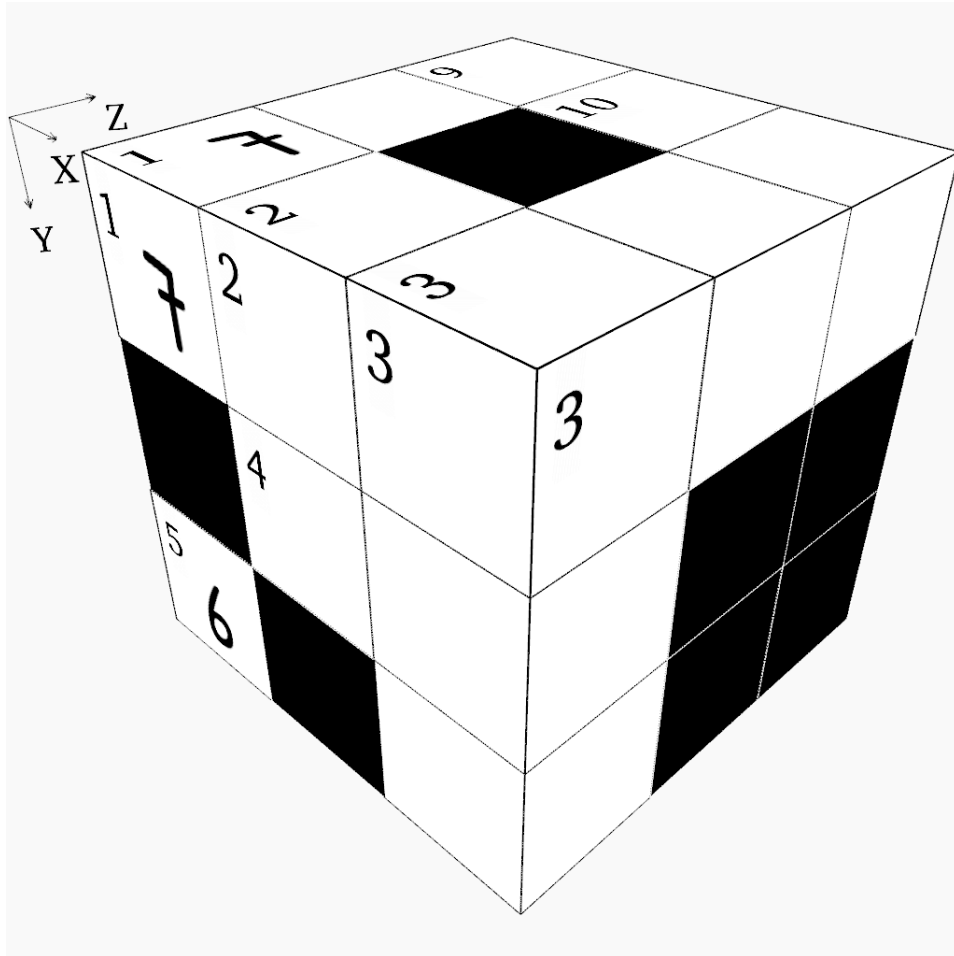


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #47



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 7	2	3				9	10	
	4			6		11		
5 6			7	8		12		

X Direction

- 1 Z5 plus X12
- 4 A prime number
- 7 Y3 minus Z4
- 9 Mean of Z1 and X7
- 11 A prime number
- 12 Mean of X11 and Z8

Y Direction

- 2 X7 divided by three
- 3 A prime number
- 6 Z1 divided by X4
- 9 Five times a prime number
- 10 Three times a prime number

Z Direction

- 1 Twenty-six times a prime number
- 3 Twice the result of Y10 minus X11
- 4 X1 reversed
- 5 Thirty-five times a prime number
- 8 A prime number

Solution:

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