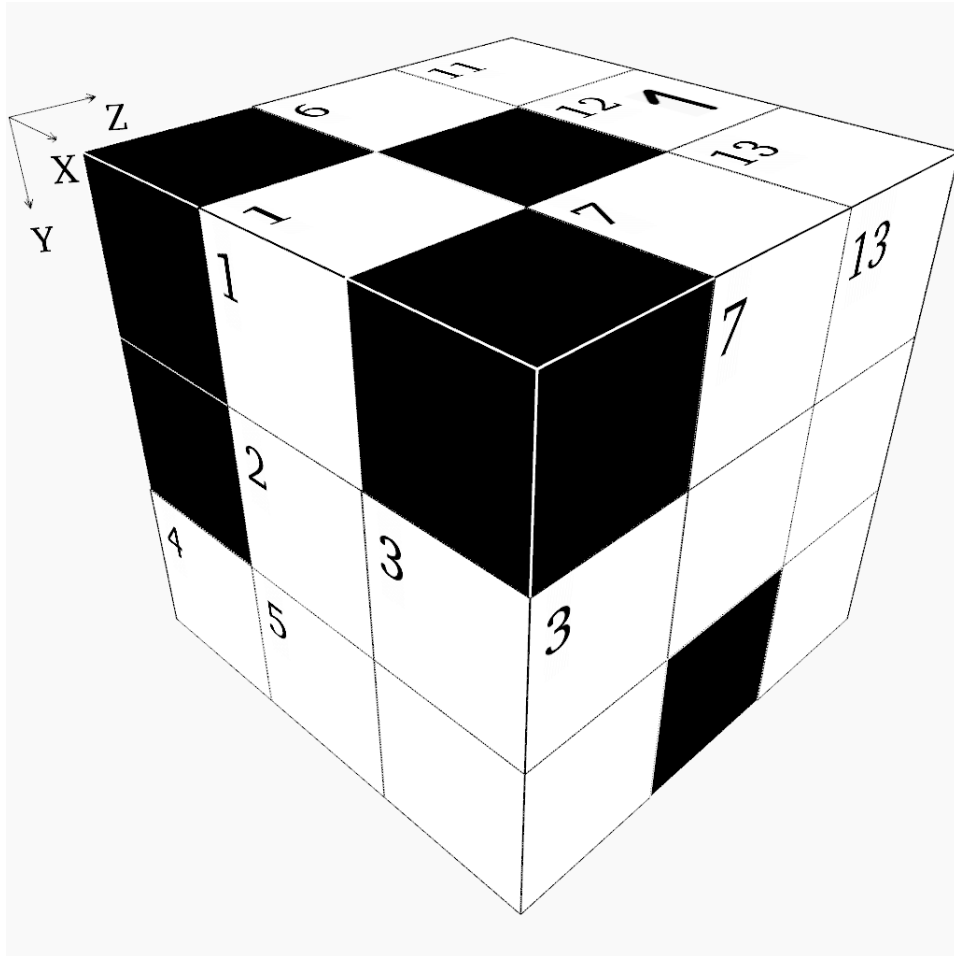


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #7



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	11	12	13
	2	3	8	9		14		
4	5		10					

X Direction

- 2 X8 divided by seven
- 4 Twice the result of Y1 plus X14
- 8 Mean of Z2 and Y9
- 10 Z3 divided by twenty-nine
- 11 X4 divided by eight
- 14 Seven times a prime number

Y Direction

- 1 Seven times a prime number
- 3 A square
- 6 Seven times a prime number
- 7 X11 minus Z6
- 9 X11 minus Z6
- 11 Same as Z8
- 12 Same as X10
- 13 Mean of Z4 and Y6

Z Direction

- 2 Mean of Y6 and X10
- 3 Y13 plus X2
- 4 A square
- 5 Seven times a prime number
- 6 Z7 minus Y12
- 7 Y11 plus Z6
- 8 Same as X10

Solution:

	3		5		6	1	1	2
	2	3	1	6	1	1	1	9
8	9	6	1	1				6