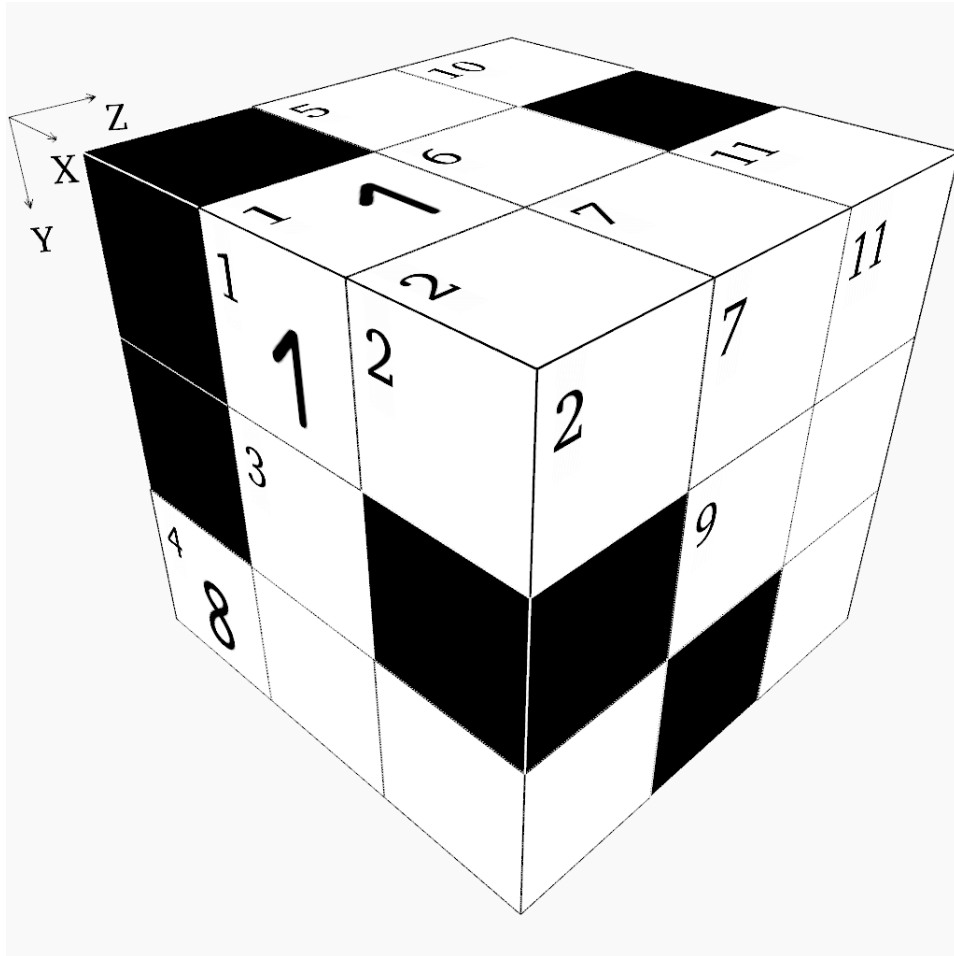


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #29



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

X Direction

- 1 Z2 minus X4
- 4 Twice a square
- 5 A prime number
- 8 Half of Z2, then subtract X14
- 12 All digits are the same
- 14 A square

Y Direction

- 1 Ten times a prime number
- 5 Mean of Y1 and Z9
- 6 Z9 plus Z8
- 7 Half of Y6, then subtract Z1
- 10 X4 plus Y13
- 11 Mean of Z2 and Z4
- 13 Three times Y7

Z Direction

- 1 Square root of X14
- 2 X4 plus Z5
- 3 X8 plus X4
- 4 Eight times a prime number
- 5 Same as X1
- 8 Y13 divided by three
- 9 Y6 minus Y7

Solution:

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