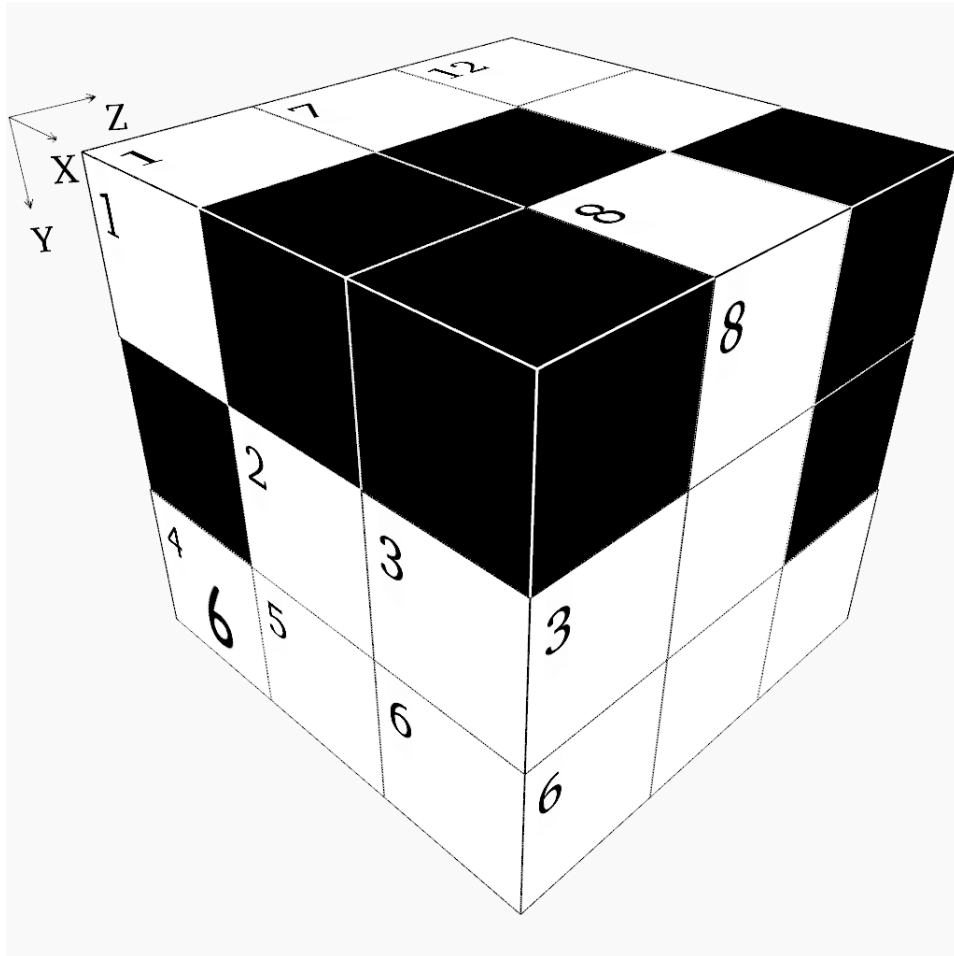


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #36



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		8	12		
	2	3	9	10				
4		6						
5	6			11		13		

X Direction

- 2 Mean of Y2 and Z2
- 4 Twelve times a prime number
- 9 Nine times a prime number
- 11 A square
- 12 A prime number
- 13 Twelve times a prime number

Y Direction

- 2 X9 minus half of X13
- 3 Y7 plus Z9
- 7 Consecutive digits in descending order
- 8 X4 plus Z3
- 10 X11 plus X12
- 12 A prime number

Z Direction

- 1 Twice the result of Y12 plus Z9
- 2 Y10 plus X11
- 3 Mean of Y2 and X11
- 5 Rearranged digits of X13
- 6 Four times a prime number
- 9 Y10 divided by three

Solution:

9			3		6	4	7	
	9	5	2	7	9	4		
6	3	6		2	5	3	7	2