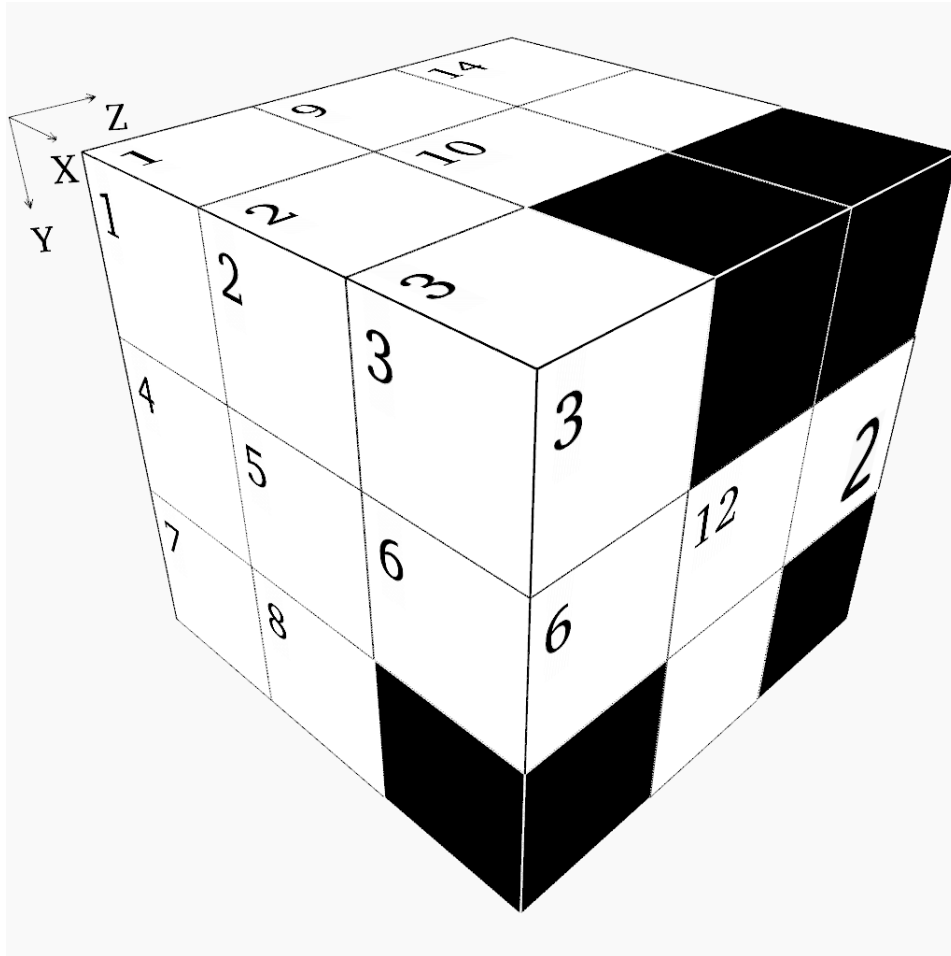


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #1



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	3	9	10		14		
4	5	6		11	12			
7	8		13			15		

X Direction

- 1 Y1 minus X14
- 4 Three times a prime number
- 7 Z2 minus X1
- 9 Z1 divided by forty-seven
- 11 Six times X9
- 13 Z5 plus half of Z7
- 14 A prime number
- 15 X13 divided by four

Y Direction

- 1 Twenty-four times a prime number
- 2 Twelve times a prime number
- 3 Y14 minus X15
- 10 X13 plus X14
- 12 Twice a prime number
- 14 Twenty-four times a prime number

Z Direction

- 1 Thirteen times a prime number
- 2 A prime number
- 5 Z8 divided by seven
- 6 X4 plus half of Y12
- 7 Twenty-two times a prime number
- 8 Seven times a prime number

Solution:

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