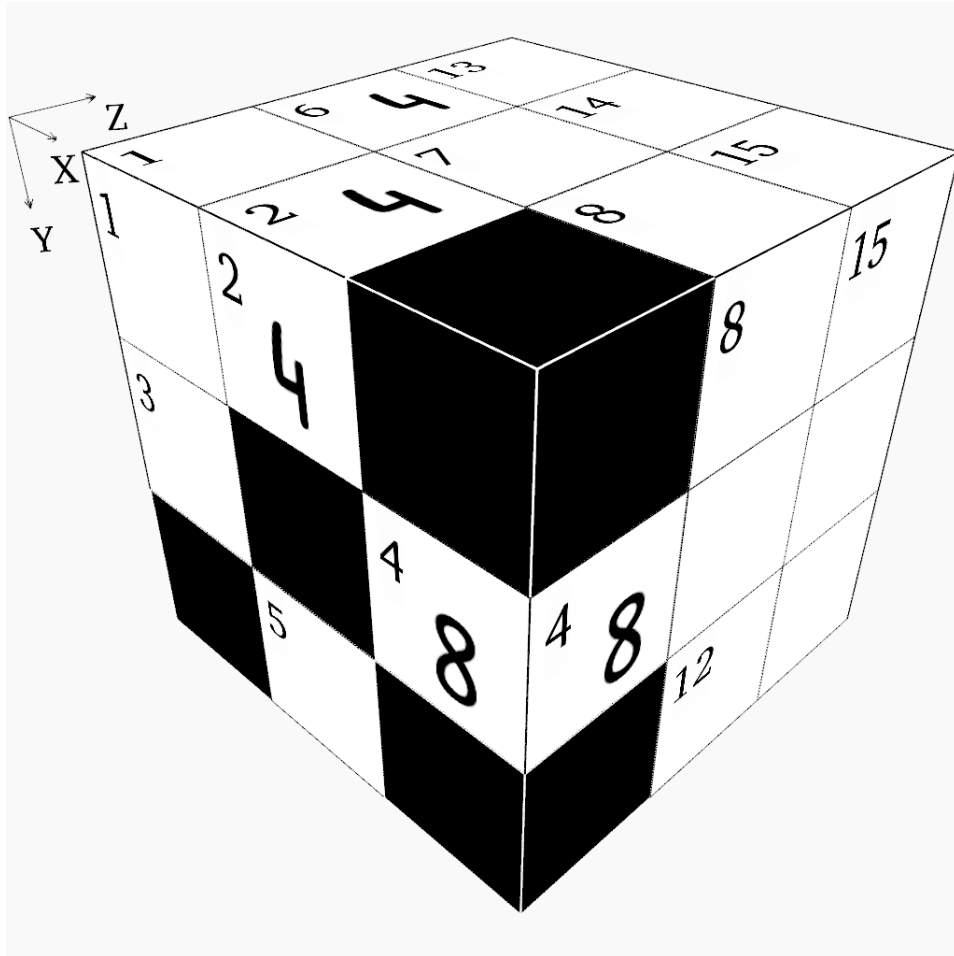


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #32



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 4		6 4	7	8	13	14	15
3		4 8	9	10			16	
	5			11	12	17		

X Direction

- 1 Two-fifths of Z8
- 6 Same as Z2
- 9 Z4 minus X6
- 11 Y7 divided by twenty-eight
- 13 Z5 plus X1
- 16 Consecutive digits in descending order
- 17 Forty-one times Y1

Y Direction

- 1 Z12 divided by three
- 6 A prime number
- 7 Forty-eight times X1
- 8 Mean of X17 and Z3
- 14 Z8 plus half of Y7
- 15 Five times a prime number

Z Direction

- 1 Twice a prime number
- 2 Z4 minus X9
- 3 Z10 minus X11
- 4 Eleven times X16
- 5 Twenty-seven times a prime number
- 8 Z3 reversed
- 10 All digits are the same
- 12 Mean of X1 and X16

Solution:

1	4		4	6	3	6	3	5
5		8	3	7	3		7	6
	6			2	4	6	1	5