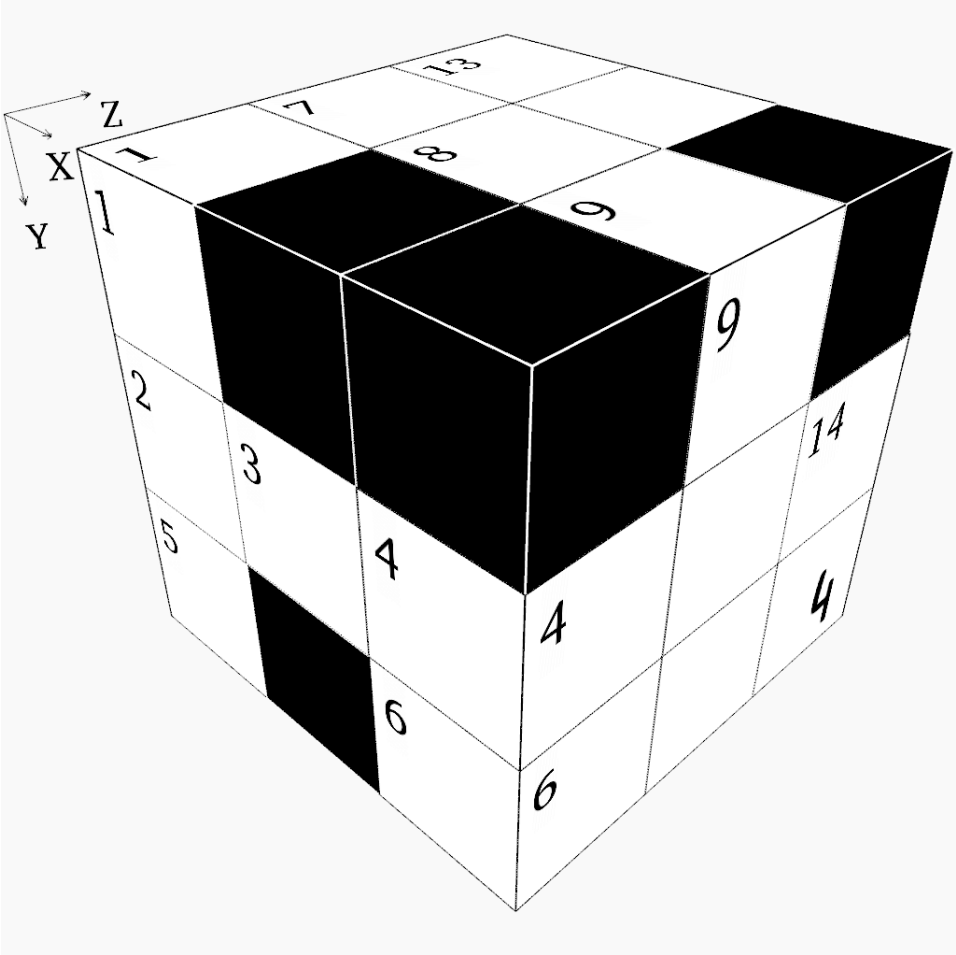
Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #50



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.

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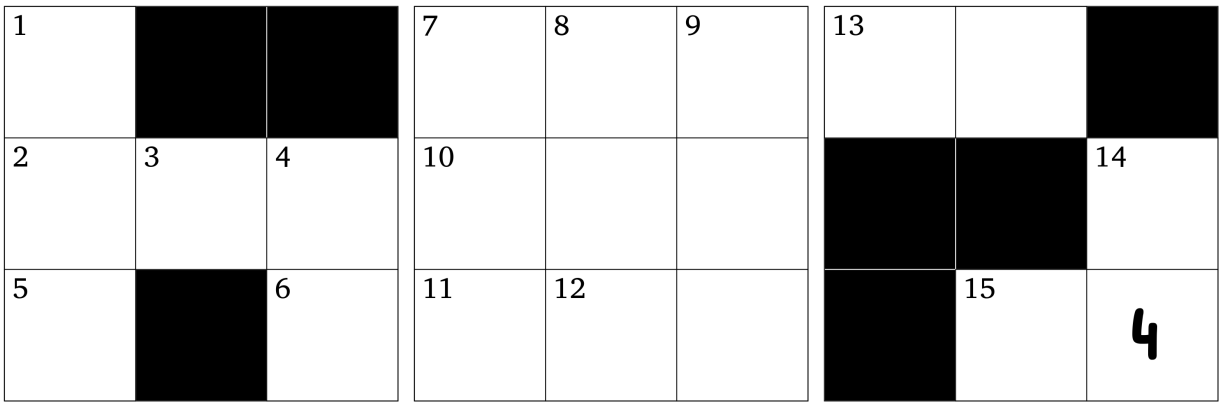
If we take the cube pictured above and divide it into individual X-Y layers, we will get these planes:



X Direction

2 Z5 plus half of X15
7 A prime number
10 X7 minus Y4
11 Five times a prime number
13 X2 minus Y7
15 Twice a prime number

Y Direction

1 Rearranged digits of X10
4 Z1 divided by forty-seven
7 X10 minus Y14
8 Twenty-eight times a prime number
9 X13 plus X10
14 Twice the result of Y7 minus Z8

Z Direction

1 Mean of Z6 and Y8
2 A prime number
3 A square
4 X10 plus X13
5 Half of X10
6 X11 minus X2
8 X7 minus X15
12 Mean of X15 and Z5

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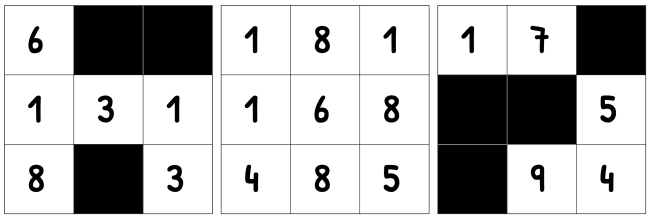
Solution:



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