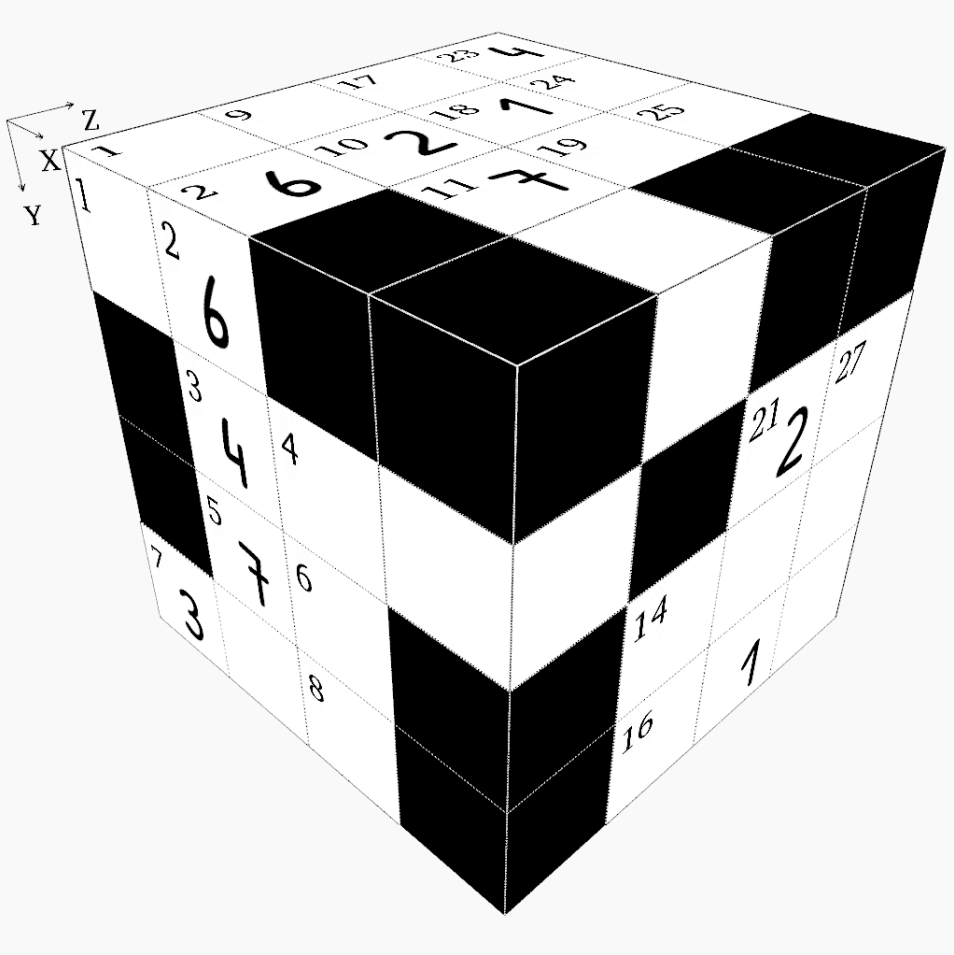
Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #48



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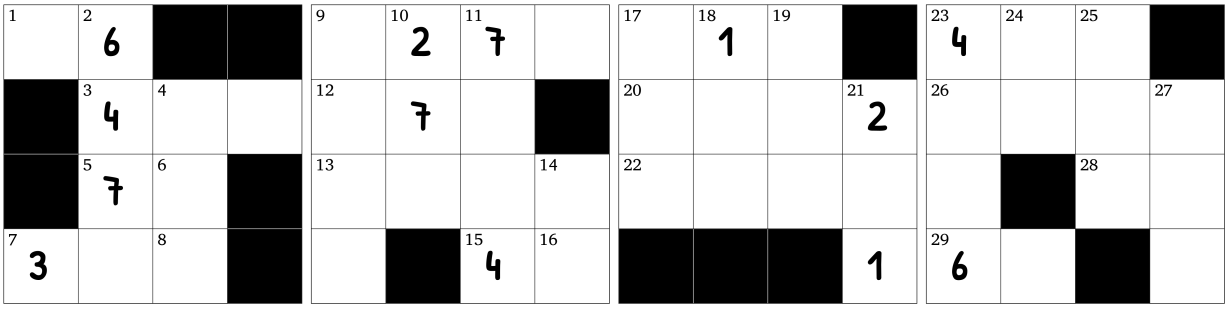
If we take the cube pictured above and divide it into individual X-Y layers, we will get these planes:



X Direction

1 A square
3 Twice the result of Y17 minus X29
5 Y27 divided by nine
7 Fourteen times Z21
9 Z6 plus Z1
12 Twice a prime number
13 Eleven times a prime number
15 Z13 minus X17
17 Mean of Y17 and Y18
20 One thousand seven hundred twenty-eight more than Y9
22 A prime number
23 Y14 plus half of Y4
26 Y27 plus half of X12
28 Z16 minus X3
29 Z3 divided by seventy-nine

Y Direction

2 Twice the result of X13 plus Y10
4 X12 minus Z8
9 Four times a prime number
10 Nine times a prime number
11 Z7 times Y21
14 Y18 minus X28
17 Eight times a prime number
18 Mean of Y25 and X1
19 Nine times Y14
21 Half of X23
23 Eight times Z16
24 Z7 plus Z21
25 Mean of Z21 and X23
27 Consecutive digits unordered

Z Direction

1 Nineteen times a square
2 Twenty-one times Y17
3 Six times Z5
4 Seventeen times X23
5 Ten times a prime number
6 Twice a prime number
7 Z4 divided by Y21
8 Y23 divided by ninety-four
11 Twenty-three times Z7
12 Seven times a prime number
13 X28 plus X17
14 Fifty-five times a prime number
16 Y27 minus Y18
21 Y25 minus X17

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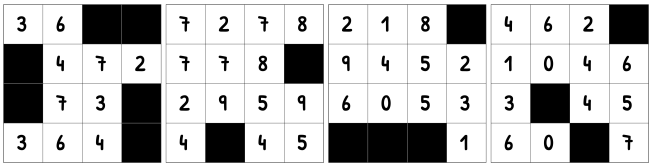
Solution:



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