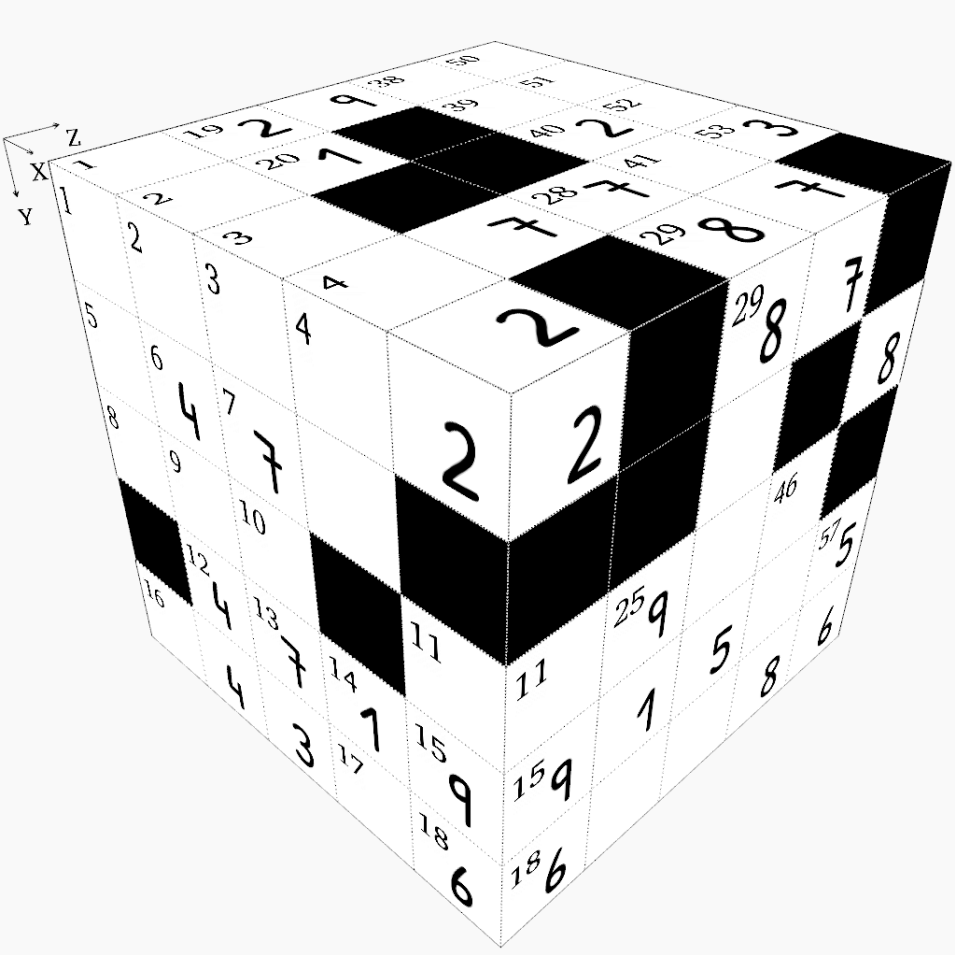
Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #35



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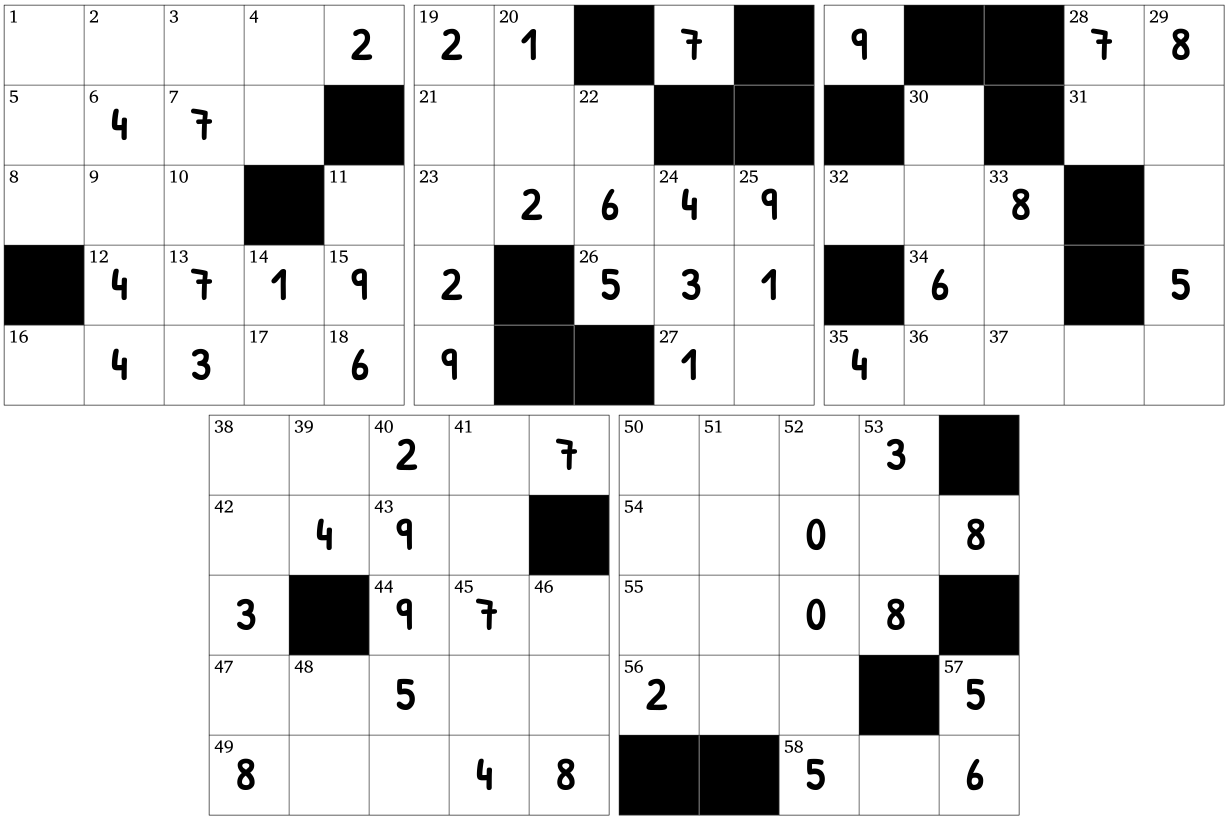
If we take the cube pictured above and divide it into individual X-Y layers, we will get these planes:



X Direction

1 Twelve thousand four hundred forty less than Y29
5 A square
8 Eleven times X31
12 Thirty-nine times a square
16 Fourteen times a square
19 Mean of Z47 and X27
21 Three-fifths of Y22
23 Nine times a prime number
26 Mean of X44 and Z2
27 Z40 minus Z39
28 Z43 minus Z39
31 A square
32 Z1 divided by Y53
34 X28 minus Y4
35 Y3 minus X42
38 Ninety-three times a prime number
42 Forty-seven times a prime number
44 A prime number
47 Seventeen times a prime number
49 Four thousand six hundred ninety-six more than Y29
50 Forty-one times a prime number
54 Twice a prime number
55 Y50 plus X58
56 Mean of X27 and X58
58 Z37 reversed

Y Direction

1 Forty-seven times Y39
2 Three thousand four hundred nine more than Z15
3 X54 minus Z17
4 A square
11 X16 divided by Y4
14 Mean of Z39 and Y39
19 Three times a prime number
20 Twice Y48
22 Z17 divided by thirty-three
24 Mean of X56 and X21
25 Z2 times X27
28 Y57 plus Z40
29 Y41 plus X28
30 Seventeen less than Z11
33 Y46 plus Z34
38 Fifteen thousand one hundred sixty-five more than Y3
39 Two-thirds of X19
40 Fifteen times a prime number
41 Y29 minus Y28
46 Y2 divided by Z34
48 Z34 divided by eight
50 Twenty-four times X32
51 Twenty-six times a prime number
52 Five times a prime number
53 Rearranged digits of Y46
57 Z36 plus X27

Z Direction

1 Rearranged digits of X23
2 Y14 plus Z45
4 A prime number
5 Mean of Z45 and Z47
6 X54 minus half of Y38
7 Y1 minus X21
8 X49 minus half of Y33
9 A prime number
10 Thirty times a prime number
11 Seven times a prime number
13 A prime number
14 Z2 minus Y28
15 Five times a prime number
16 Four times a prime number
17 X21 times Z5
18 Eighty-six times a prime number
29 X28 reversed
31 Z6 divided by fifty-nine
34 X44 minus X56
36 Y46 divided by three
37 X58 reversed
39 Three-fourths of Y4
40 X28 minus Y57
42 A cube
43 Z39 plus Y28
45 Same as Y28
47 Z45 minus Z36

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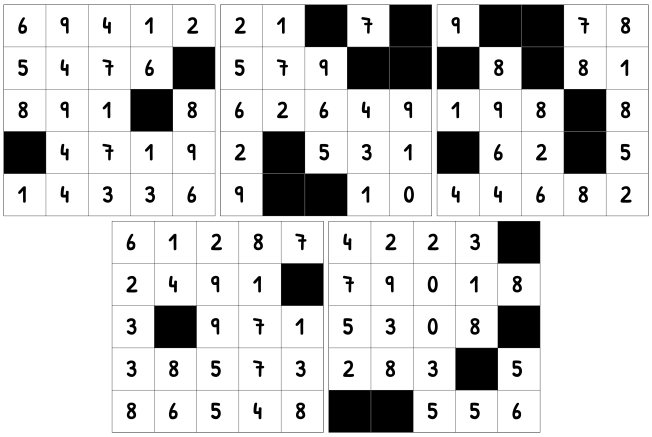
Solution:



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