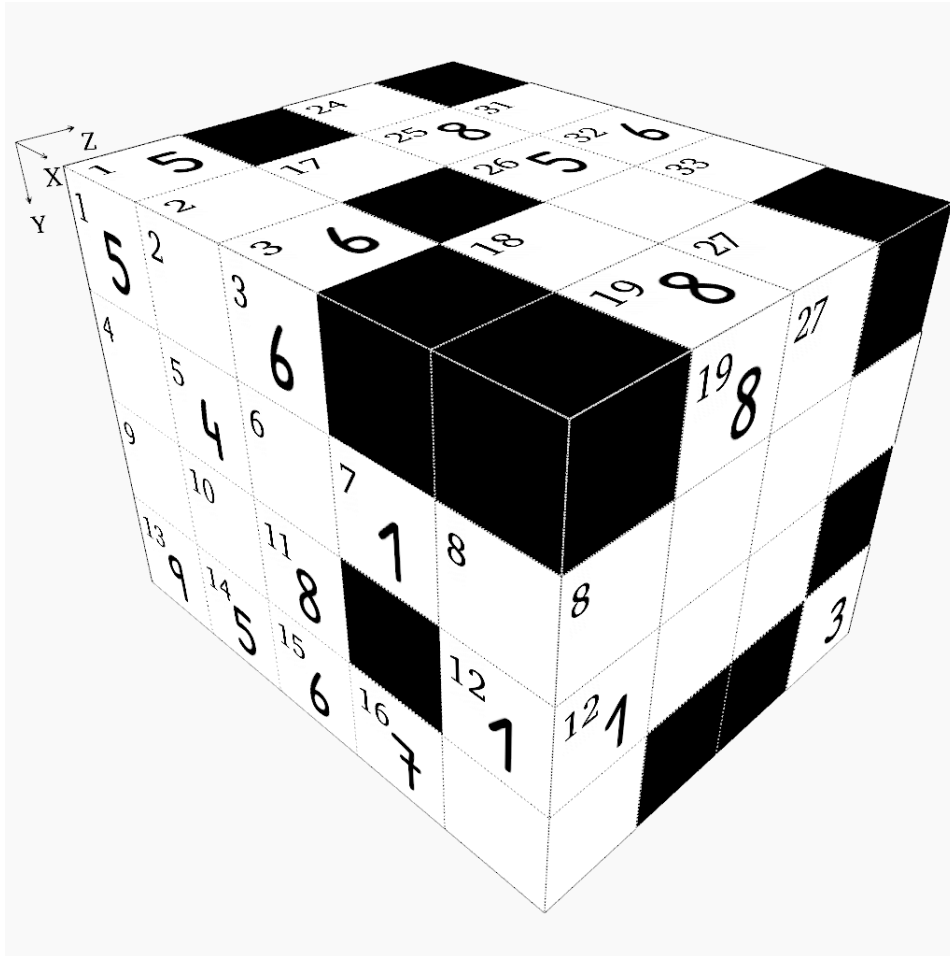


Difficulty: ☆☆☆☆☆

Box - Beginner Puzzle #26



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 box pictured above and divide it into individual X-Y layers, we will get these planes:

1 5	2	3 6				17		18	19 8	24	25 8	26 5		27
4	5 4	6	7 1	8	20		21 1			28				
9	10	11 8		12 1	22 4	2	0			29	5	2	3	
13 9	14 5	15 6	16 7		23 9					30	3	3		
						31	32 6	33						
					34 7		1							
					35 4									
					36				3					

X Direction

- 1 Four times Y20
- 4 Twice a square
- 9 Twice a prime number
- 13 Y24 times Z7
- 18 Y8 divided by twelve
- 20 First two digits are the same as Y33
- 22 Thirty times Y18
- 23 Z5 reversed
- 24 Twice a prime number
- 28 Ten times a prime number
- 29 Last two digits are the same as last two digits of Z14
- 30 A prime number
- 31 Z10 minus Y31
- 34 Ten thousand six hundred eighty-six more than X24
- 35 X1 minus Z18
- 36 A prime number

Y Direction

- 1 Seventy-seven times a prime number
- 2 Fifty-three more than Z2
- 3 Z5 plus Z4
- 8 A cube
- 17 A prime number
- 18 X13 divided by Y24
- 19 Twice a square
- 20 A prime number
- 21 A prime number
- 24 Eight hundred ninety-six more than Z14
- 25 X4 minus Y1
- 26 X23 minus half of Z13
- 27 Forty-seven times Z7
- 31 Twice a prime number
- 32 Three times a prime number
- 33 Z8 divided by Z12
- 34 Fifty-three times Z7

Z Direction

- 2 Six hundred twelve less than X23
- 4 Z6 plus Z19
- 5 Mean of Z26 and Z13
- 6 Three times a prime number
- 7 Z26 divided by four
- 8 Fifty-seven times a square
- 9 Mean of Z15 and Y17
- 10 A prime number
- 11 Seventy-five times a prime number
- 12 Six times X18
- 13 Six times a prime number
- 14 Rearranged digits of Y25
- 15 Twenty-seven times a prime number
- 16 X18 plus Z26
- 18 A prime number
- 19 Twice a prime number
- 26 Four times Y18

Solution:

5	9	6				3		1	8	6	8	5	0	6
1	4	1	1	2	1	9	1	4	0	8	9	0		5
5	3	8		1	4	2	0		0	3	5	2	3	8
9	5	6	7	6	9	9	9	4		4	3	3		
						2	6	1						
					7	9	1	9	2					
					4	9	5							
					2	8	9	3	3					