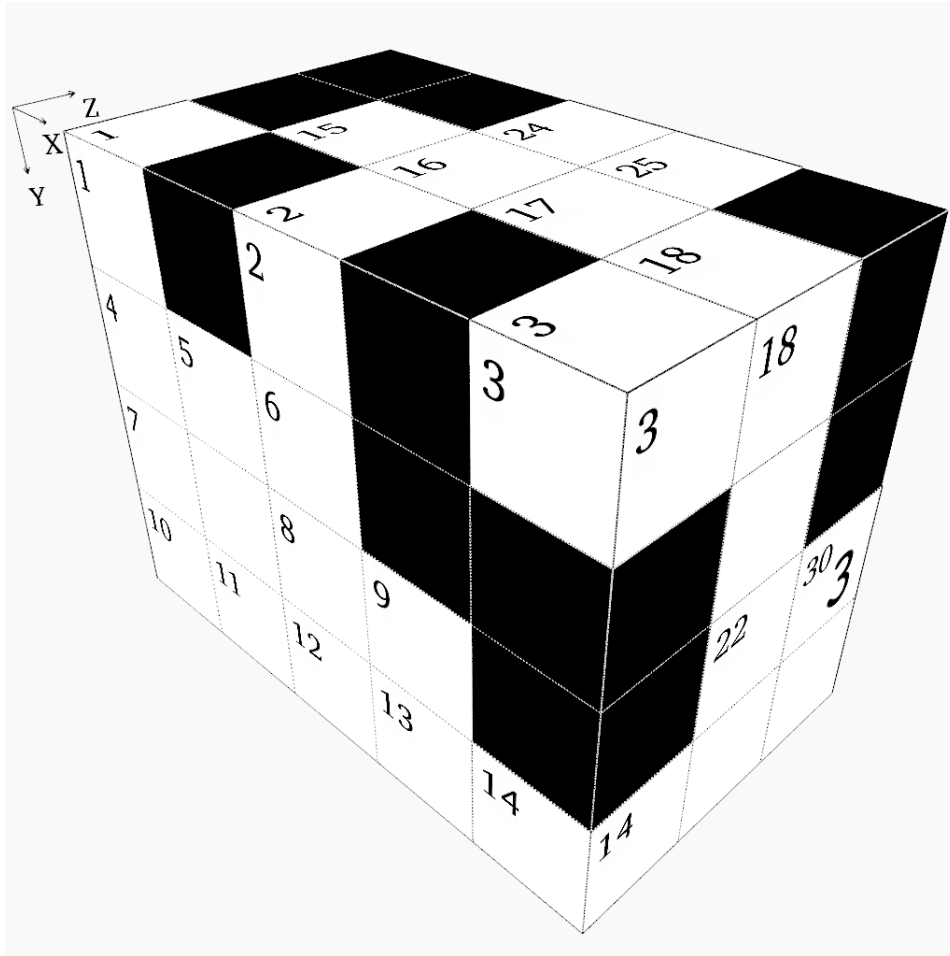


Difficulty: ☆☆☆☆☆

Box - Beginner Puzzle #36



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		2		3		15	16	17	18			24	25	
4	5	6				19			20			26		
7		8	9					21		22		27	28	29
10	11	12	13	14		23								30

X Direction

- 4 Z5 plus Y5
- 7 Eighteen times a prime number
- 15 A prime number
- 19 Ninety times a prime number
- 21 Nine times a prime number
- 23 Fourteen times a prime number
- 24 Eight times Z5
- 27 Thirteen times a prime number
- 31 Y29 times Z6

Y Direction

- 1 Y19 plus half of Z11
- 2 Twenty-eight times a prime number
- 5 Eight times Z22
- 9 Z17 minus Y30
- 15 X4 minus Y5
- 16 A palindrome
- 17 Thirteen times a prime number
- 18 Twice a prime number
- 19 A prime number
- 25 Nine hundred five less than Y17
- 26 All digits are the same
- 28 Mean of Z17 and X4
- 29 Mean of Z17 and X4
- 30 Z13 divided by eight

Z Direction

- 2 Three more than X4
- 3 A square
- 4 A prime number
- 5 Z6 minus Z10
- 6 Z3 minus Y15
- 7 Mean of Y19 and X21
- 8 Y17 divided by Z22
- 9 Y28 plus half of Z14
- 10 Y26 minus Y9
- 11 Four times a prime number
- 12 A cube
- 13 Z9 minus Z12
- 14 A square
- 17 Twice the result of Z2 minus Z3
- 20 Twice the result of Y18 minus Z7
- 22 Z20 divided by six

Solution:

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