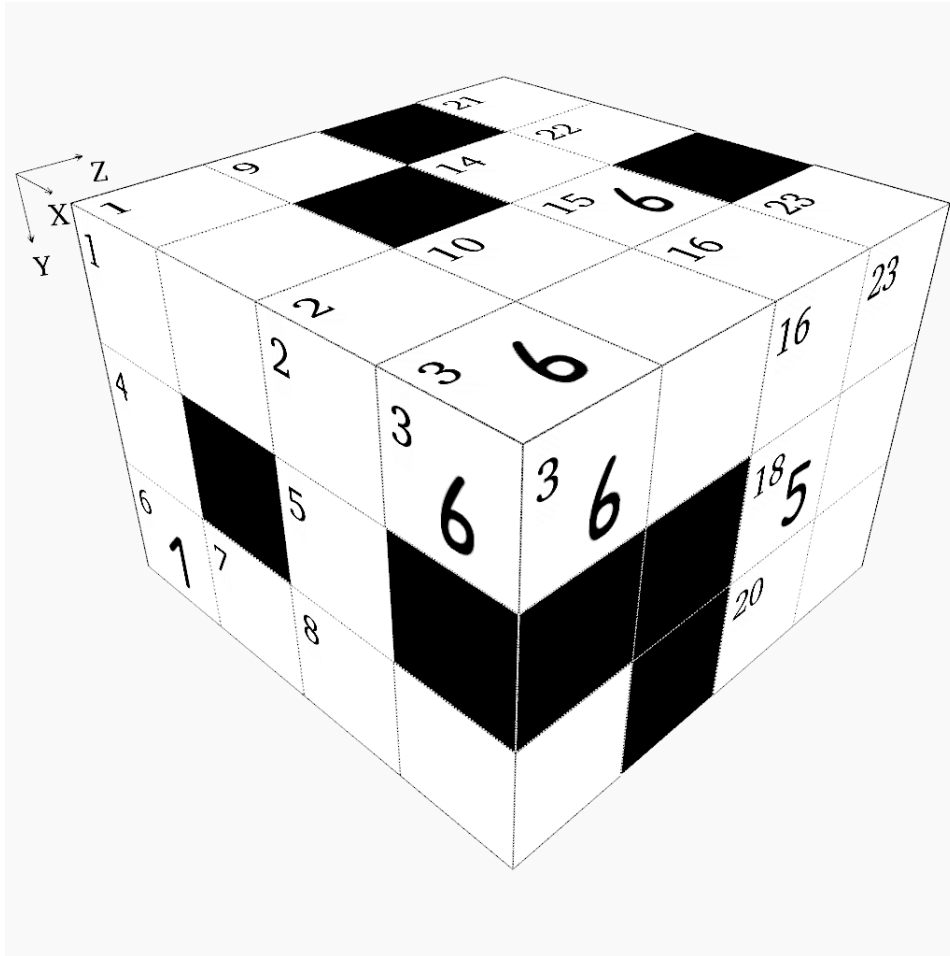


Difficulty: ☆☆☆☆☆

Box - Beginner Puzzle #44



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	6	9		10			14	15	6	16	21	22		23
4			5		11	12	6			17			18	24		25	
6	1	7	8		13							19	4	20	26		

X Direction

- 1 Mean of Z5 and Y15
- 6 Twelve times a prime number
- 10 Y14 minus Y17
- 11 A square
- 13 Twenty-three less than X11
- 14 Z12 minus Y25
- 17 Mean of Y23 and X1
- 19 Z7 minus X21
- 21 Twice a prime number
- 24 Seventy-three times a prime number
- 26 Four hundred seventy-six more than X6

Y Direction

- 1 Mean of X21 and Y10
- 2 Twice Z7
- 9 A prime number
- 10 Sixteen times a prime number
- 12 Y2 minus Z20
- 14 Mean of Z20 and X21
- 15 Y17 plus Z12
- 16 Mean of Y23 and Y22
- 17 Half of Z1
- 21 Mean of Y16 and Y25
- 22 Z12 minus X19
- 23 Mean of Y12 and X14
- 25 Mean of X21 and Z2

Z Direction

- 1 Z20 minus Z14
- 2 Same as X13
- 3 A prime number
- 4 Z3 minus X21
- 5 First three digits are the same as Y10
- 6 Mean of X6 and Y10
- 7 Mean of Y12 and Z20
- 8 X24 plus X17
- 12 Twenty-five times X21
- 14 Mean of X19 and Y12
- 18 Mean of Z7 and Z1
- 20 X19 reversed

Solution:

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