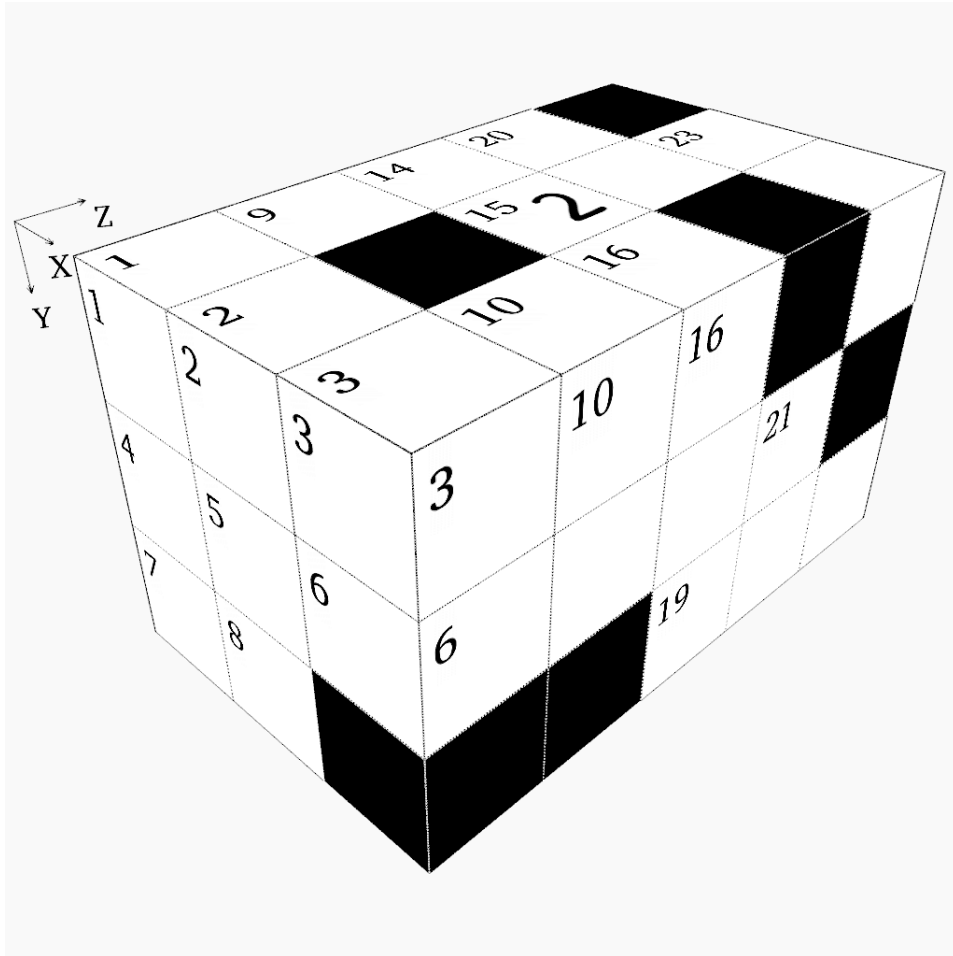


Difficulty: ☆☆☆☆☆

Box - Beginner Puzzle #40



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

X Direction

- 1** Six times a prime number
- 4** Twice the result of Z15 minus Y3
- 7** Half of X11, then subtract Y9
- 11** Twice a prime number
- 13** Consecutive digits in descending order
- 14** Nineteen times X23
- 17** Twice the result of Y16 minus Y21
- 18** A square
- 20** Consecutive digits in descending order
- 22** Twice the result of X20 plus Y20
- 23** X4 divided by twenty-two
- 24** Z19 minus Y10
- 25** Twelve times a prime number

Y Direction

- 1** Mean of Y9 and Y24
- 2** Eight times a prime number
- 3** Y12 divided by four
- 9** Mean of Z7 and Y12
- 10** Y24 reversed
- 12** Four times Y21
- 14** Mean of Z7 and Y10
- 15** X25 minus X1
- 16** X24 plus Z3
- 20** Consecutive digits in descending order
- 21** Same as Y3
- 23** Mean of X20 and Y16
- 24** Y23 minus Y12

Z Direction

- 1** A palindrome
- 3** Y1 plus X23
- 4** Twice a prime number
- 5** Thirteen times a prime number
- 6** Eighteen times a prime number
- 7** Consecutive digits in ascending order
- 8** Last two digits are the same as last two digits of Y23
- 15** A prime number
- 19** X7 plus X22

Solution:

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