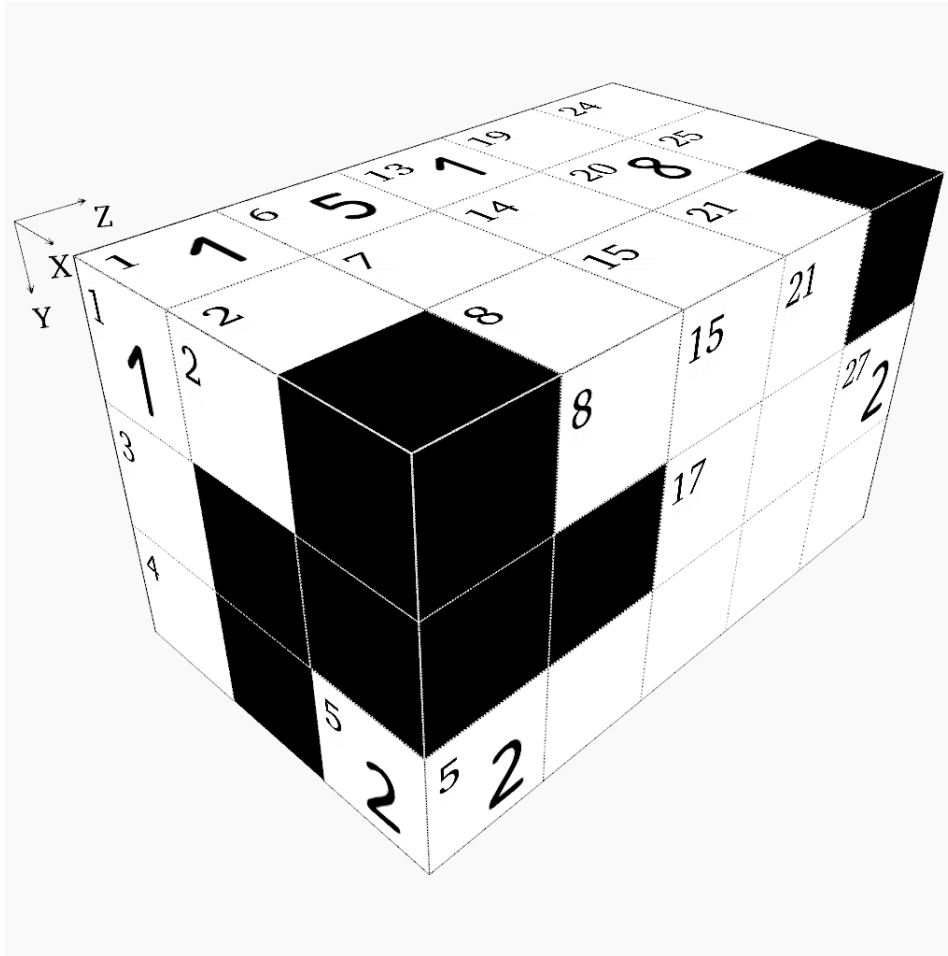


Difficulty: ☆☆☆☆☆

Box - Beginner Puzzle #1



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 1	2		6 5	7	8	13 1	14	15	19	20 8	21	24	25	
3			9	10			16	17	22			26	2	27 2
4		2	11	12 1			18		23					

X Direction

- 1** Y24 divided by thirteen
- 6** Mean of Z8 and Z12
- 9** Y25 minus X24
- 11** Sixteen times Y27
- 13** Y19 minus X1
- 16** Half of Y25
- 18** Z23 minus X24
- 19** X11 minus Y21
- 22** X13 plus Y1
- 23** Twice the result of Y15 minus X19
- 24** X13 divided by six
- 26** Twice a prime number

Y Direction

- 1** X9 plus X16
- 6** Fourteen times a prime number
- 7** X23 minus X22
- 14** Z10 divided by Z22
- 15** Mean of Y25 and Y20
- 19** A cube
- 20** Forty-four times X24
- 21** Mean of X26 and X16
- 24** Mean of X22 and Z23
- 25** Twice the result of Y1 minus X9
- 27** Y24 minus half of Y21

Z Direction

- 1** Last two digits are the same as X1
- 2** Half of Z5, then subtract X18
- 3** Z12 minus Y1
- 4** Half of X11, then subtract X13
- 5** Fourteen times a prime number
- 8** Six times a prime number
- 10** Y24 times Z22
- 12** X19 minus X16
- 17** Eight times a prime number
- 22** Y14 minus Y1
- 23** A prime number

Solution:

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