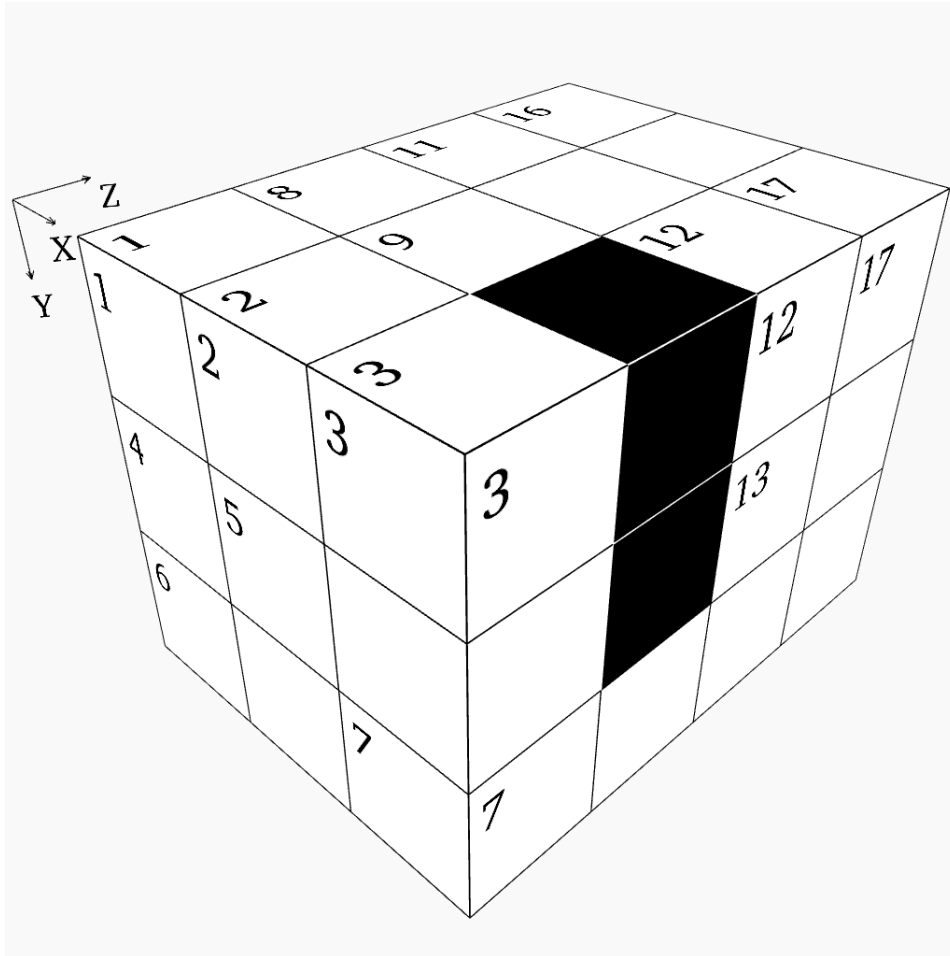


Box - Intermediate Puzzle #28



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	8	9		11		12	16		17
4	5		10					13			
6		7				14	15		18		

X Direction

- 1 Half of Y2, then subtract Z15
- 4 Five times a prime number
- 6 Mean of Y12 and Y8
- 8 Twelve times a prime number
- 10 Y12 minus Y17
- 11 A prime number
- 14 Consecutive digits in descending order
- 16 A prime number
- 18 Twice the result of Y17 plus Z12

Y Direction

- 1 Twelve times a prime number
- 2 Rearranged digits of X6
- 3 Mean of X4 and X16
- 8 Thirty-eight times a prime number
- 9 Y17 minus X1
- 12 Z13 plus Y17
- 17 Z5 plus X1

Z Direction

- 1 A prime number
- 2 Z6 minus Z5
- 4 Mean of X8 and Z13
- 5 Same as Y9
- 6 Z2 plus Y9
- 7 Sixty-four times a prime number
- 12 X1 divided by eight
- 13 Same as X10
- 15 Three times a prime number

Solution:

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