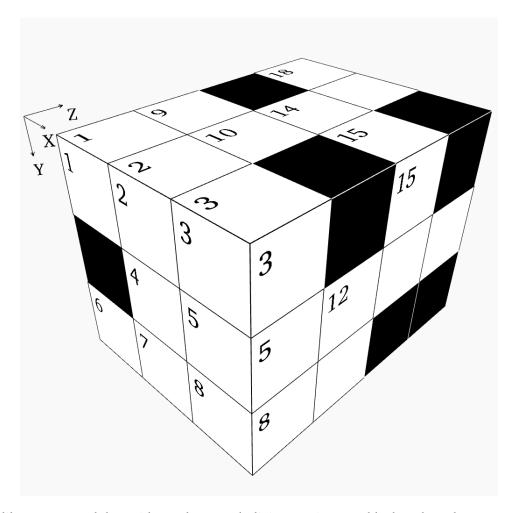


Box - Intermediate Puzzle #40



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	18	
	4	5	11		12	16				
6	7	8	13			17			19	

X Direction

- Z11 minus X18
- X13 divided by twenty-seven
- Eight times a prime number
- X17 plus half of Z4
- Seven times a prime number
- 13 Mean of Y2 and Y3
- Y18 minus X19
- 17 A square
- X19 reversed
- Mean of Z1 and Y15

Y Direction

- 2 Eight times X4
- Z11 minus X9
- X13 reversed
- A prime number
- Z6 minus Z5
- 15 A square
- Same as Y12
- X9 plus Z8

Z Direction

- Y15 plus X4
- Seven times a prime number
- 4 A square
- Z6 minus Y16
- Forty-one times a prime number
- A prime number
- Y15 minus Z4
- 11 A prime number

Solution:

Ŧ	1	6	8	9			6	6	1	f	
					3			4	3		9
4	2	4	3	7	8	8	1		7	1	