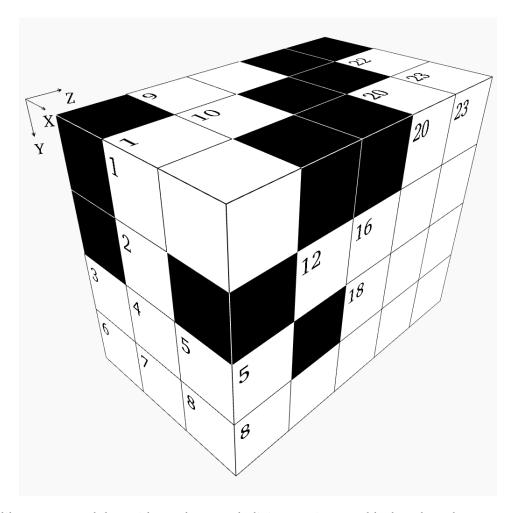
Difficulty:

Box - Intermediate Puzzle #38



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

X Direction

- Its digits total Y3
- X6 minus Z4
- 6 Z6 divided by Y5
- Z20 plus X25
- Twice a prime number
- 13 X22 plus Y24
- Twice a square
- X21 divided by Y17
- Forty-two times a square
- Thirteen times a prime number
- Y17 reversed
- 24 Mean of X19 and X14
- 25 Y20 divided by Y24

Y Direction

- Y9 minus Z1
- Z7 divided by twenty-seven
- X9 minus X25
- X9 plus Y1
- Y21 plus X11
- Y23 divided by five
- X1 divided by five
- Rearranged digits of Y23
- Mean of Y23 and X14
- Z18 minus X6
- Thirty times a prime number
- 24 Mean of Y17 and X1

Z Direction

- Y3 plus X25
- First two digits are the same as Y5
- Thirty-nine times a square
- X25 divided by five
- A cube
- Twenty-seven times Y5
- 8 One thousand fifty-two more than Z2
- 9 X22 plus Y22
- 18 Y23 divided by Z4
- Z1 minus X25
- 21 Three times X22

Solution:

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