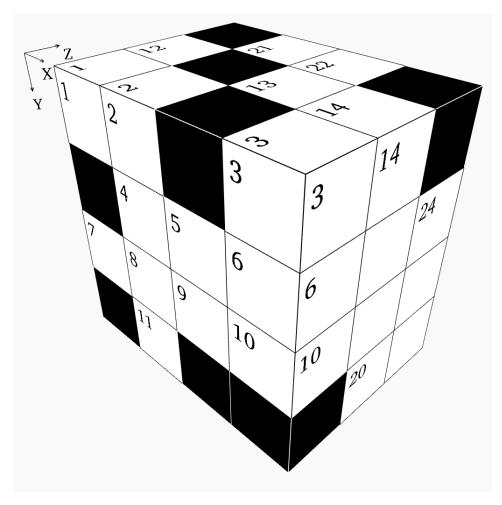


Box - Challenging Puzzle #62



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	12		13	14		21	22	
	4	5	6	15	16			23			24
	0	0	10	177				0.5			
7	8	9	10	17				25			
	11				18	19	20	26			

X Direction

- A square
- Thirteen times a prime number
- Seventy-nine times Z19
- X23 divided by Z15
- Thirty times a prime number
- Seven times a prime number
- Z8 minus Z6
- 21 X18 divided by four
- 23 Twenty-eight times X1
- Twice a prime number
- Nine times a prime number

Y Direction

- A prime number
- A prime number
- X7 divided by seventy-nine
- Thirty-nine times Z3
- Four times a prime number
- Ninety-seven times Z15
- Mean of Y5 and Y22
- Twenty times a prime number
- A square
- A prime number
- Seventeen times Z13

Z Direction

- 1 Y24 minus Z4
- 3 Z19 minus Z20
- Twice the result of Z11 plus X1
- **5** Twice the result of Y12 minus Z9
- 6 One hundred sixty-three less than Y16
- 7 Mean of Y24 and Y5
- 8 Rearranged digits of Z4
- Eighteen times a prime number
- X26 minus X21
- 11 Ten times a prime number
- Mean of Y5 and X21 **15** Y12 divided by thirteen
- Z10 divided by sixteen
- Y5 minus Z3

Solution:

8	1		1	5		5	4		4	1	
	7	6	f	4	8	9	0	2	2	6	8
4	8	1	9	6	7	9	F	4	2	8	6
	3				1	6	4	1	0	1	f