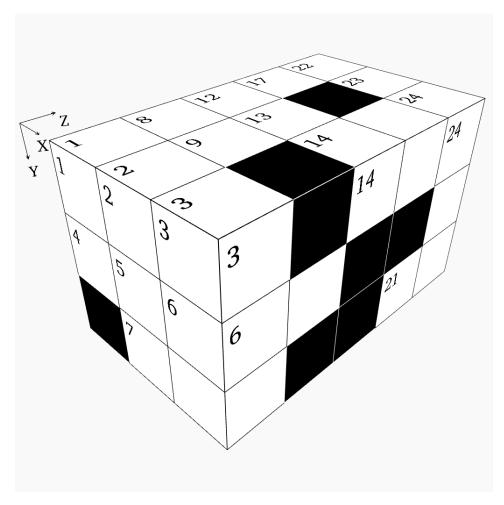
Box - Intermediate Puzzle #16



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	12	13	14	17			22	23	24
									10				
4	5	6	10		15			18	19		25		
	7		11		16			20		21		26	
	/		11		10			20		21		20	

X Direction

- **1** X11 times Y1
- **4** A prime number
- **7** Y9 divided by seven
- 8 Z21 divided by seven
- 10 Mean of Y9 and X22
- 11 X1 divided by X8
- **12** X25 plus Y13 **15** X1 divided by X8
- 16 Mean of Y1 and Y8
- 18 Mean of X7 and Y24
- **20** Y17 reversed
- 22 Mean of X25 and Y8
- **25** Three times X26
- **26** Z6 minus X11

Y Direction

- 1 Same as Y22
- **2** Y3 plus X16
- **3** Three times a prime number
- 8 Half of Y17, then subtract Z14
- **9** Rearranged digits of Y13
- 12 Twice the result of X25 plus X4
- **13** Mean of X20 and Y23
- 17 X20 reversed
- 19 Mean of X7 and X25
- 22 Mean of Y1 and X8
- 23 Y12 minus X22
- **24** X7 plus Y19

Z Direction

- 1 First two digits are the same as first two digits of Y8
- **2** Z6 times X8
- 4 A prime number
- **5** Twenty-one times a prime number
- **6** Z2 divided by Y22
- **7** Fifteen times a prime number
- 11 Mean of X26 and Z14
- **14** A prime number
- 21 Mean of X11 and X4

Solution:

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