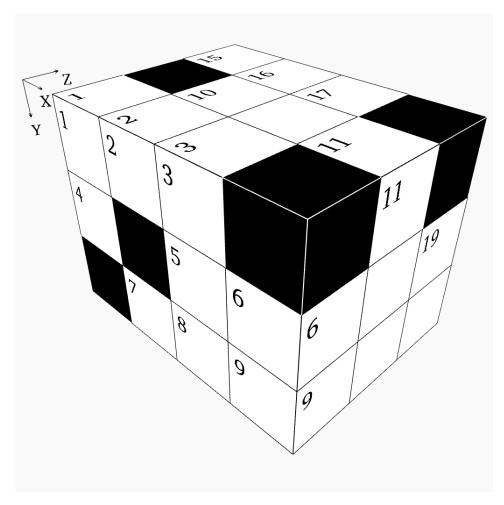
Box - Intermediate Puzzle #34



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			10	11	15	16	17	
4		5	6	12	13		18			19
		_	_							
	7	8	9	14			20			

X Direction

- 1 Z3 reversed
- **5** Y16 minus half of Z13
- **7** Z13 plus Z7
- 10 Twice the result of X15 plus Z14
- 12 Mean of Y1 and Y12
- 14 Y17 plus Z8
- **15** Thirty-five times a square
- **18** Sixteen times a prime number
- **20** Twenty-six times a prime number

Y Direction

- **1** A prime number
- **3** Nine times a prime number
- **6** X18 divided by X1
- **10** Fourteen less than X10
- **11** Mean of Z13 and X14
- **12** Mean of Y19 and Y6
- **15** Twice a prime number
- **16** X12 plus Y12
- **17** Five times a square
- 19 Z7 minus Y11

Z Direction

- 2 Z9 plus X12
- **3** X15 plus Z13
- **4** Seven times a prime number
- **6** Four times a prime number
- **7** Six times a square
- 8 Twice Z3
- **9** Y17 plus Y16
- **13** Y17 divided by ten
- 14 X5 reversed

Solution:

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