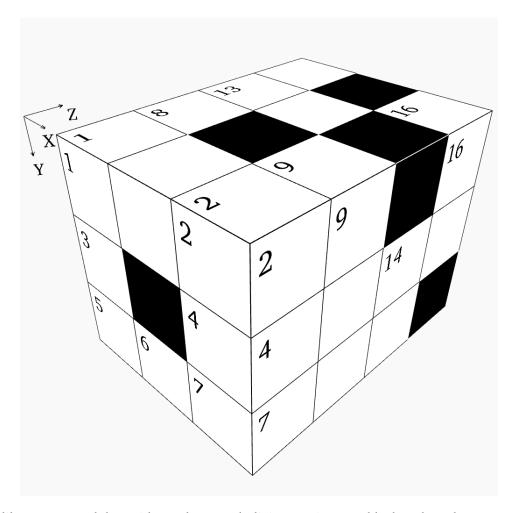


Box - Intermediate Puzzle #22



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	8		9	13				16
3		4	10	11			14		17	
5	6	7	12			15		18		

X Direction

- 1 Z3 plus X12
- **5** Eight times a prime number
- **10** Z6 minus Z5
- **12** Y16 plus Z7
- 13 Z3 reversed
- **15** A square
- **18** A prime number

Y Direction

- 1 X12 plus X17
- **2** Eighty-four times a prime number
- **8** Forty-one times X13
- **9** X12 minus X15
- **11** X10 minus X15
- 14 Twice the result of X5 minus X1
- 17 Consecutive digits in ascending order 16 Consecutive digits in descending order 7 Thirty-two times X13
 - **17** Z2 minus X13

Z Direction

- **1** X15 plus Z5
- 2 Six less than X15
- 3 X15 minus half of Y16
- **4** Six times a prime number
- **5** Twice the result of Z4 plus Y9
- **6** Z1 plus Y11

Solution:

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