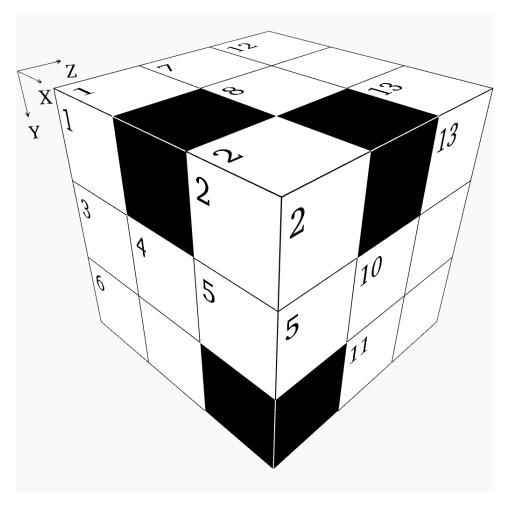
Cube - Intermediate Puzzle #18



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 cube pictured above and divide it into individual X-Y layers, we will get these planes:

1		2	7	8		12		13
3	4	5	9		10			
6					11		14	

X Direction

- **3** Mean of X9 and Y2
- **6** Y10 plus Z11
- 7 Y1 minus Z89 Three times a prime number
- **12** Y13 minus half of X14
- **14** Y7 minus Y10

Y Direction

- **1** A prime number
- **2** X14 minus Z4
- **4** Y7 minus Z8 **7** X14 plus Z3
- 8 Three-fourths of Y4
- **10** Y13 divided by forty-five
- **13** Forty-five times Z3

Z Direction

- 1 Five times a prime number3 Two-fifths of Z8

- 4 Z11 plus Y8
 5 X6 plus Y7
 8 Y13 divided by eighteen
- **11** Y13 divided by twenty-seven

Solution:

1		1	8	3		5	0	5
1	5	1	2	9	1			4
3	2				2		Ŧ	0