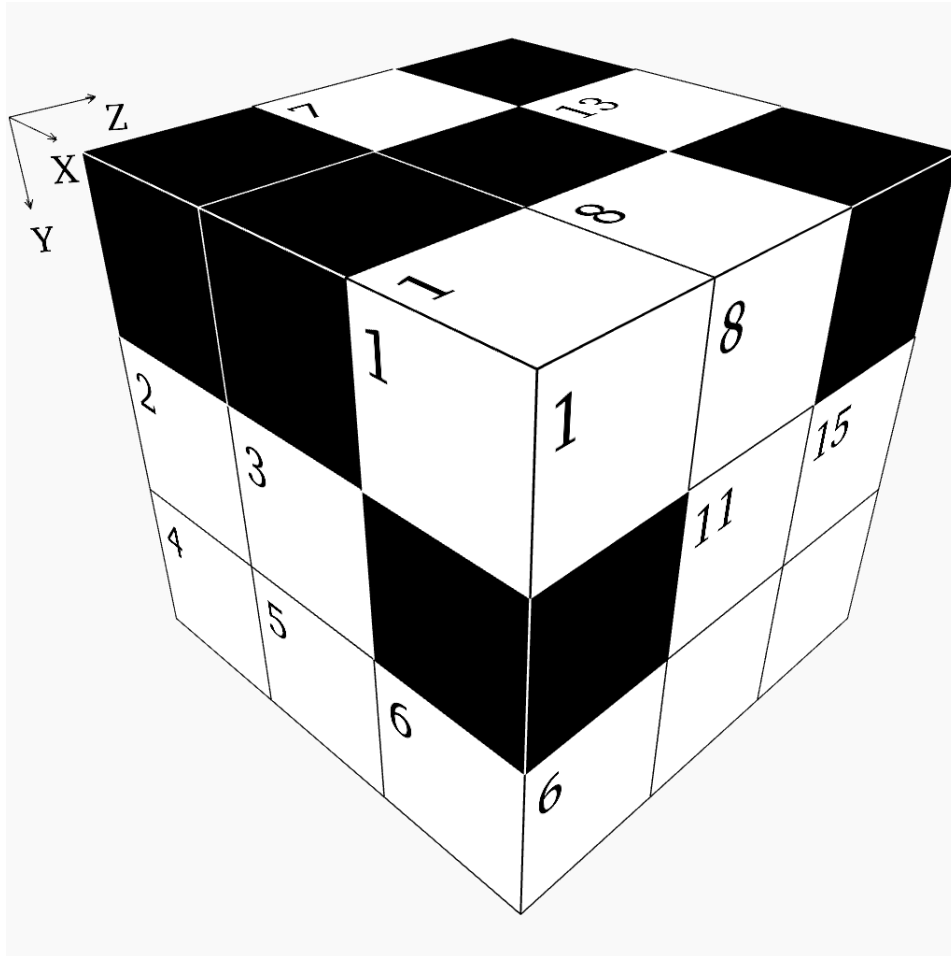


Cube - Intermediate Puzzle #13



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	7		8		13	
2	3		9	10	11	14		15
4	5	6		12			16	

X Direction

- 2 X12 minus Y2
- 4 Y7 plus Z11
- 9 Twice a prime number
- 12 Ten times a prime number
- 14 Twenty-seven times X16
- 16 Consecutive digits in descending order

Y Direction

- 2 A prime number
- 3 Twice the result of X16 plus Z1
- 7 Mean of X16 and Z11
- 8 Ten times Y7
- 10 A prime number
- 13 A prime number
- 15 Three-fifths of X12

Z Direction

- 1 X16 minus Y10
- 2 Four times a prime number
- 3 Twice the result of Z2 plus X12
- 5 Eleven times a prime number
- 6 Twice a prime number
- 11 Twice Y15

Solution:

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