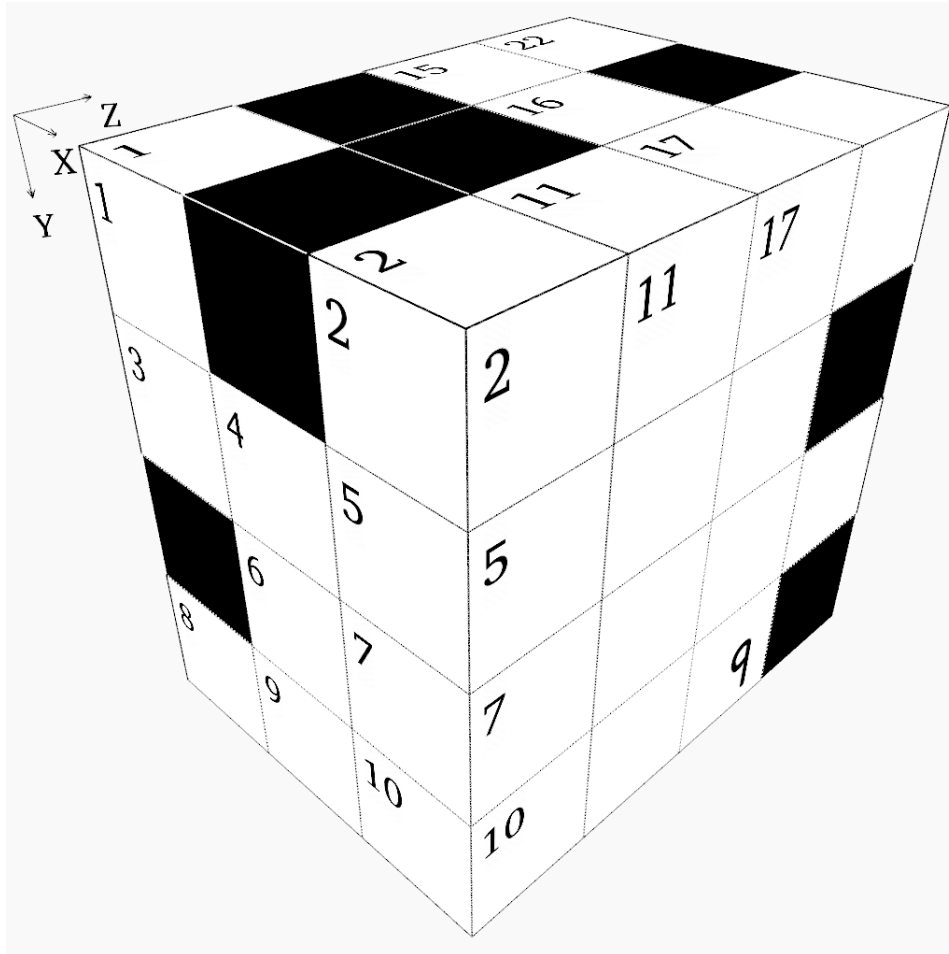


Difficulty: ☆☆☆☆☆

Box - Beginner 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			11	15	16	17	22		
3	4	5	12	7		18	0		23	7	24
	6	7	13			19	8		25		
8	9	10	14				21	9	26		

X Direction

- 3 A prime number
- 6 Z13 minus X12
- 8 Forty-four times X21
- 12 Eleven times Y1
- 14 Thirty-five times a prime number
- 15 X8 plus Z15
- 18 Twice a prime number
- 19 X18 minus Y1
- 21 A prime number
- 23 A prime number
- 25 Six times X26
- 26 Mean of X6 and Z20

Y Direction

- 1 A square
- 2 Thirty-two times a prime number
- 4 Three times a prime number
- 11 Five times a square
- 12 X25 divided by three
- 15 Three times a prime number
- 16 A prime number
- 17 Two thousand two hundred seven more than Z7
- 22 Eight times a prime number
- 24 Three times a square

Z Direction

- 2 Six hundred fourteen more than Y2
- 3 Eleven times a prime number
- 4 Z2 minus half of Z5
- 5 Y24 divided by six
- 7 Sixty-six times a prime number
- 8 Twelve times a prime number
- 9 Half of Z7, then subtract X21
- 10 A prime number
- 13 Y16 minus half of Y22
- 15 Mean of Y12 and X26
- 20 Y12 minus X6

Solution:

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