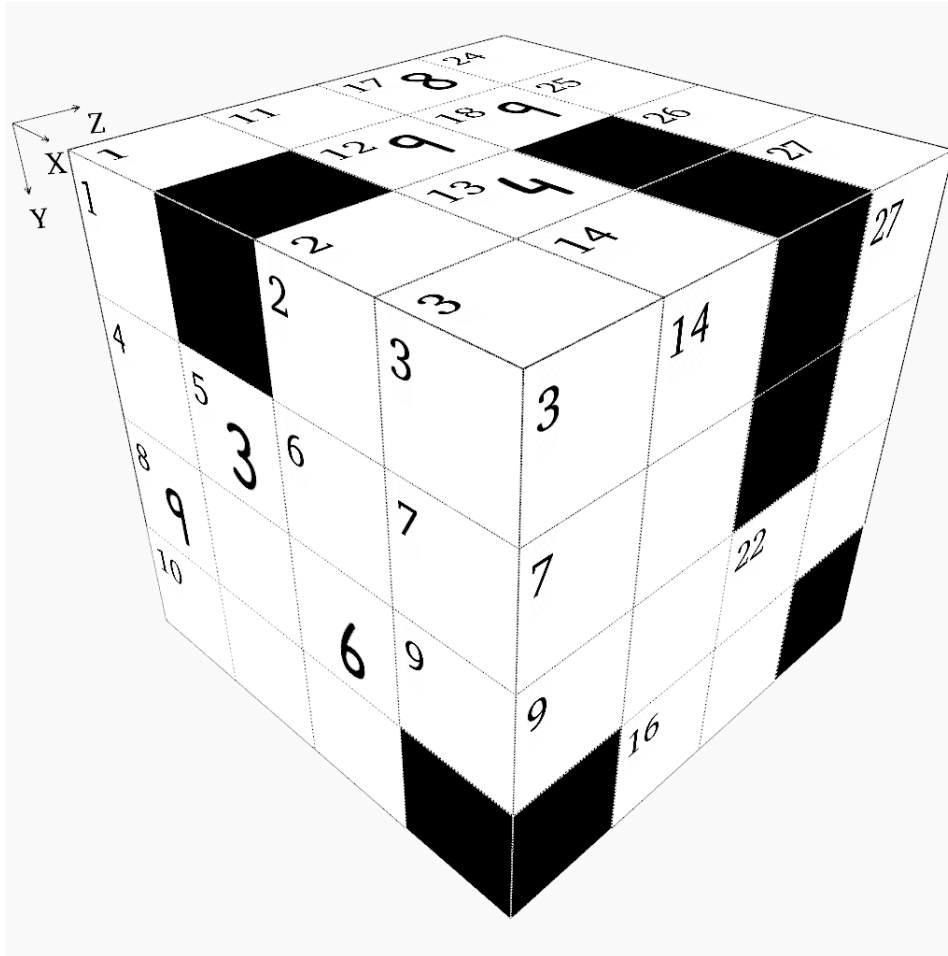


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #20



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	3	11	12	13	14	17	18			24	25	26	27
					9	4		8	9						
4	5	3	6	7	15			19				28			
					2			5						4	
8	9		6	9				20	21		22	29			
10					1		16	23	5						

X Direction

- 2 Y22 minus X23
- 4 Seventy-two times a prime number
- 8 Twice the result of Y14 plus X23
- 10 X23 plus Z16
- 11 Y18 plus Z7
- 15 Z12 plus half of Z4
- 17 Z1 divided by fifty-six
- 19 X8 divided by seventeen
- 20 A square
- 23 Y1 minus X29
- 24 Mean of Z6 and X19
- 28 Mean of X20 and Y24
- 29 X24 minus Z7

Y Direction

- 1 A prime number
- 2 Mean of Y3 and X4
- 3 Consecutive digits unordered
- 5 Three times a prime number
- 11 Three times a prime number
- 12 Six times a square
- 13 Mean of Z16 and Z2
- 14 Four times a prime number
- 17 Twice a prime number
- 18 X11 minus X20
- 22 Consecutive digits in ascending order
- 24 Thirty-one times a prime number
- 25 Z9 minus Y2
- 26 Y24 reversed
- 27 Same as X19

Z Direction

- 1 Z16 plus Y14
- 2 Y13 reversed
- 3 Z9 divided by sixty-four
- 4 Twelve times a prime number
- 5 Y2 reversed
- 6 Fifty-two times a prime number
- 7 Y3 minus half of Y27
- 8 One hundred fifty-seven less than Y11
- 9 Thirty-two times Z16
- 10 Three times a prime number
- 12 Three times a prime number
- 16 Z8 divided by X10
- 21 Four more than X17

Solution:

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