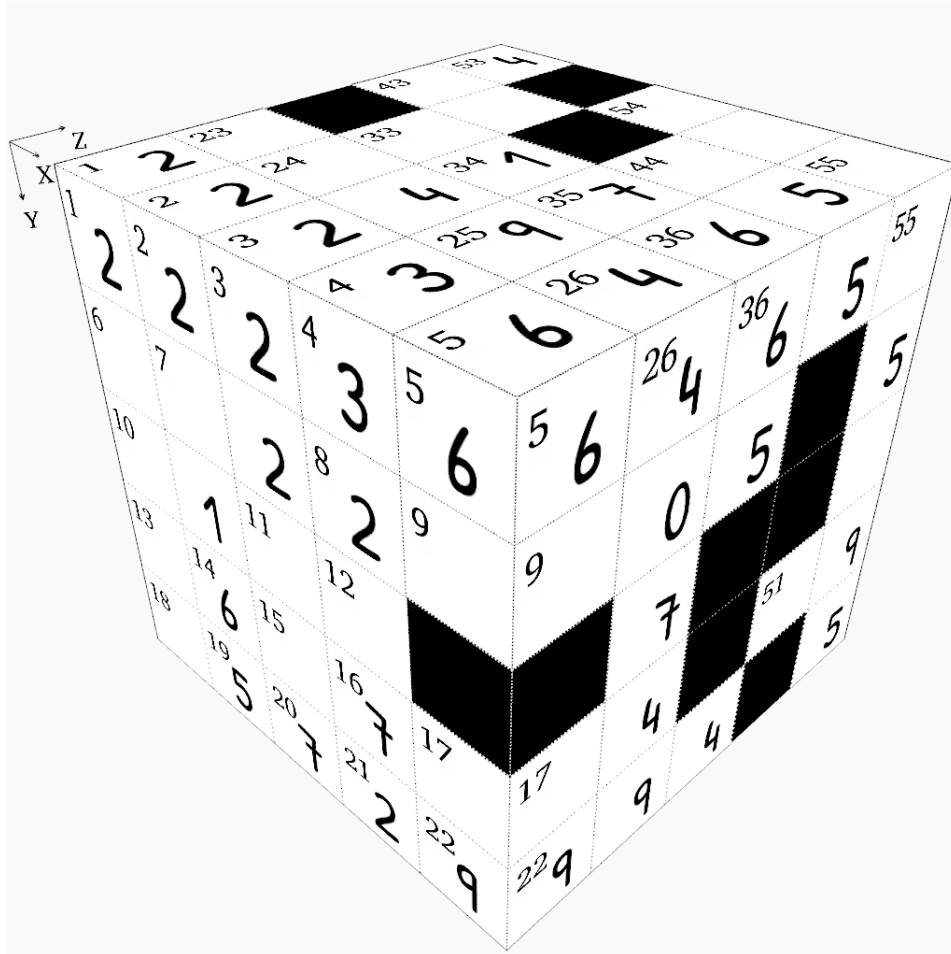


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #3



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	2 2	3 2	4 3	5 6	23	24	4	25 9	26 4		33	34 1	35 7	36 6
6	7	2	8 2	9	27 3	9		28 8	0	37 4	6	38 1		5
10	1	11	12				29		7	39	40 1	1		
13	6	15	16 7	17	30	31	7		4	0			41 9	
18	5	20 7	21 2	22 9	32 1	1	4	2	9	42 1	5	3	5	4

43			44 5		53 4		54		55
9		45 1	8				0		5
46 6	47		48 1			56 4	7	57	
49	50 3	3		51	58 2	1		59	9
52		1	1		60 2	4		3	5

X Direction

- 1 First two digits are the same as Y58
- 6 Last two digits are the same as last two digits of Z19
- 10 Z40 plus Y47
- 13 A prime number
- 18 Twenty-three times a prime number
- 23 Forty-two times a prime number
- 27 X45 plus Y31
- 28 X45 plus Z14
- 29 X39 plus half of Y47
- 30 Six times a prime number
- 32 Eleven times a prime number
- 33 Its digits total X58
- 37 Twenty-five times a prime number
- 39 Y54 minus Z7
- 42 Eighteen times a prime number
- 43 Same as Y41
- 44 Same as Y41
- 45 X44 minus Y35
- 46 A prime number
- 49 Thirteen times a prime number
- 52 One thousand three hundred more than X46
- 54 Two hundred nineteen more than Z16
- 56 Ten times a prime number
- 58 X43 minus Z17
- 59 Sum of digits in Z7
- 60 One hundred seventy more than Y2

Y Direction

- 1 X6 plus X46
- 2 One thousand six hundred fifty-two more than Z21
- 3 Ninety-three times a prime number
- 4 Thirty-two times a prime number
- 5 A square
- 17 Z38 minus Z50
- 23 A prime number
- 24 X28 minus X58
- 25 Twelve times a prime number
- 26 Five thousand four hundred twenty-six less than X37
- 29 Z16 plus X43
- 31 X28 minus Y24
- 33 Z16 minus X45
- 34 Z50 plus X28
- 35 Mean of Y24 and X44
- 36 Mean of Z48 and Y34
- 37 Twenty-seven times a prime number
- 41 Mean of Y34 and Y17
- 43 Twice the result of X23 plus X60
- 44 Z17 plus Y54
- 45 Twenty-nine times X27
- 47 Z48 plus Y57
- 53 Z10 minus X54
- 54 Z11 divided by Z50
- 55 Twenty thousand four hundred thirty-seven more than Z5
- 56 Twenty-three times X45
- 57 Y29 plus X27
- 58 Z51 minus Z15

Z Direction

- 1 Z51 minus Z15
- 2 Twenty-five times a prime number
- 3 Mean of Y35 and Z9
- 4 A prime number
- 5 Twenty-two times a prime number
- 6 Two thousand sixty-nine more than X32
- 7 Sixteen times Z50
- 8 Twice a prime number
- 9 Fifteen times Z15
- 10 Y36 plus Y44
- 11 Thirty-one times a prime number
- 12 Mean of X44 and X27
- 13 Four times a prime number
- 14 Y34 minus Z51
- 15 Sum of digits in Y55
- 16 Y29 minus Y41
- 17 X43 minus Y31
- 18 Eight thousand four hundred eight more than X30
- 19 Forty-four times a prime number
- 20 Nine thousand six hundred fifty-five more than Z5
- 21 X10 plus half of X30
- 22 Z14 plus Y47
- 38 Five times Z1
- 40 Last two digits are the same as last two digits of X23
- 43 Z51 reversed
- 48 Y41 divided by five
- 50 X44 minus Y5
- 51 Mean of Y17 and Z48

Solution:

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

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