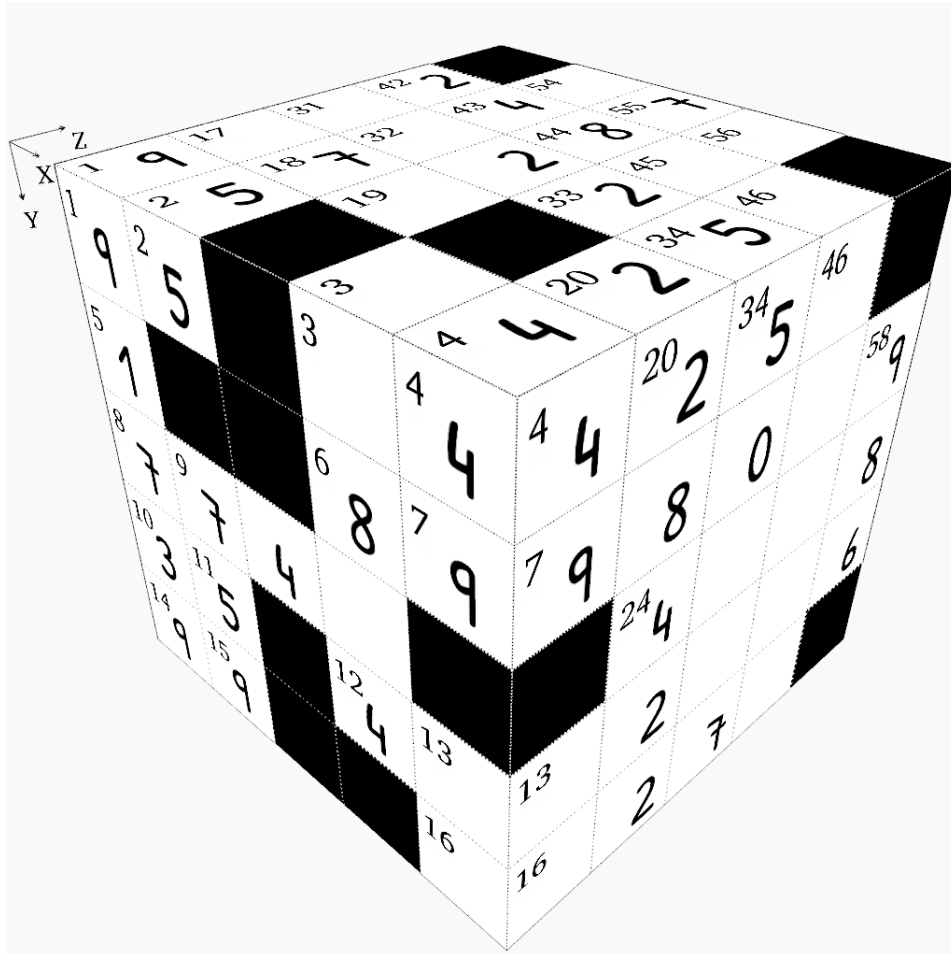


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #41



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 9	2 5		3	4 4	17	18 7	19		20 2	31	32	2	33 2	34 5
5 1			6 8	7 9	21 7	22 5	8	1	8	35				0
8 7	9 7	4			23 1	1			24 4	36 4		37	38	
10 3	11 5		12 4	13		25 3	26 6	27 9	2	39 1		40 5		
14 9	15 9			16	28	5	29 2	30	2	41 2	5	6	8	7

42 2	43 4	44 8	45	46		54	55 7	56		
	47 1	48	49 4			57 4		1	58 9	
	50	8	4				59		8	
51 7	52 5		3			60 6	61 8	3	7	6
53 3		3	1			62 1	7		5	

X Direction

- 1 Z39 minus Z6
- 3 A cube
- 6 Y27 reversed
- 8 Five times a prime number
- 10 X14 minus X3
- 12 A square
- 14 Z5 minus Y51
- 17 Mean of Z38 and X14
- 21 Fourteen thousand forty-three more than Y56
- 23 Y51 minus Y26
- 25 Fifty-two times a prime number
- 28 Ten thousand eight hundred thirty-seven less than X57
- 31 Its digits total Z48
- 35 Sum of digits in Y56
- 36 Two thousand three hundred fifty-three less than Y34
- 40 A prime number
- 41 Seventeen times a prime number
- 42 Twelve times a prime number
- 47 X31 divided by seventy-five
- 50 Forty-seven times a prime number
- 51 X54 times Y54
- 53 X17 times Z37
- 54 Twelve times Y51
- 57 Three times a prime number
- 59 Twice X6
- 60 Fifteen thousand five hundred eighty-seven less than Y46
- 62 Five times a prime number

Y Direction

- 1 Six thousand three hundred less than Z7
- 3 Forty-six times a prime number
- 4 A square
- 9 Z5 plus X40
- 13 Y37 minus Y60
- 17 Mean of Y13 and Z38
- 18 Fifteen times a prime number
- 19 Y61 minus X12
- 20 Eighteen times a prime number
- 26 Y38 minus Z33
- 27 Y17 minus Y51
- 31 Five thousand six hundred twenty-seven less than Z7
- 32 Sixteen times a prime number
- 34 Seven times a prime number
- 37 Mean of Y54 and Z33
- 38 Z49 plus Z38
- 43 Nine times a prime number
- 44 Three times a prime number
- 45 Eleven times a prime number
- 46 Eight thousand six hundred twenty-seven more than X51
- 51 X10 plus Y19
- 54 Half of Z5
- 55 Y38 times Z38
- 56 X10 times X62
- 58 Seventeen times Z52
- 60 Mean of Y61 and X10
- 61 X17 minus Y54

Z Direction

- 1 Twenty-four times a prime number
- 2 Seven thousand five hundred eleven more than Z12
- 4 Twice a prime number
- 5 Mean of X17 and Y17
- 6 A square
- 7 Twenty-two thousand nine hundred four more than Y18
- 8 Thirty-four times Z48
- 9 X42 minus half of X28
- 11 X10 reversed
- 12 Eight thousand eighty-six more than Y43
- 13 Six times a prime number
- 14 Eighty-one times a prime number
- 15 Nine times a prime number
- 16 Z7 minus Z13
- 19 Mean of Z26 and Z49
- 22 X8 minus half of Z4
- 24 Half of Z1, then subtract Y27
- 26 Forty-seven times a prime number
- 29 Four times a prime number
- 30 Nine hundred sixty-six more than X50
- 33 Z11 plus X17
- 37 Y13 plus Y54
- 38 Z33 plus Z48
- 39 Mean of Z37 and Y17
- 48 Three-fifths of X10
- 49 Mean of Y60 and Z48
- 52 Mean of Z48 and X1

Solution:

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

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