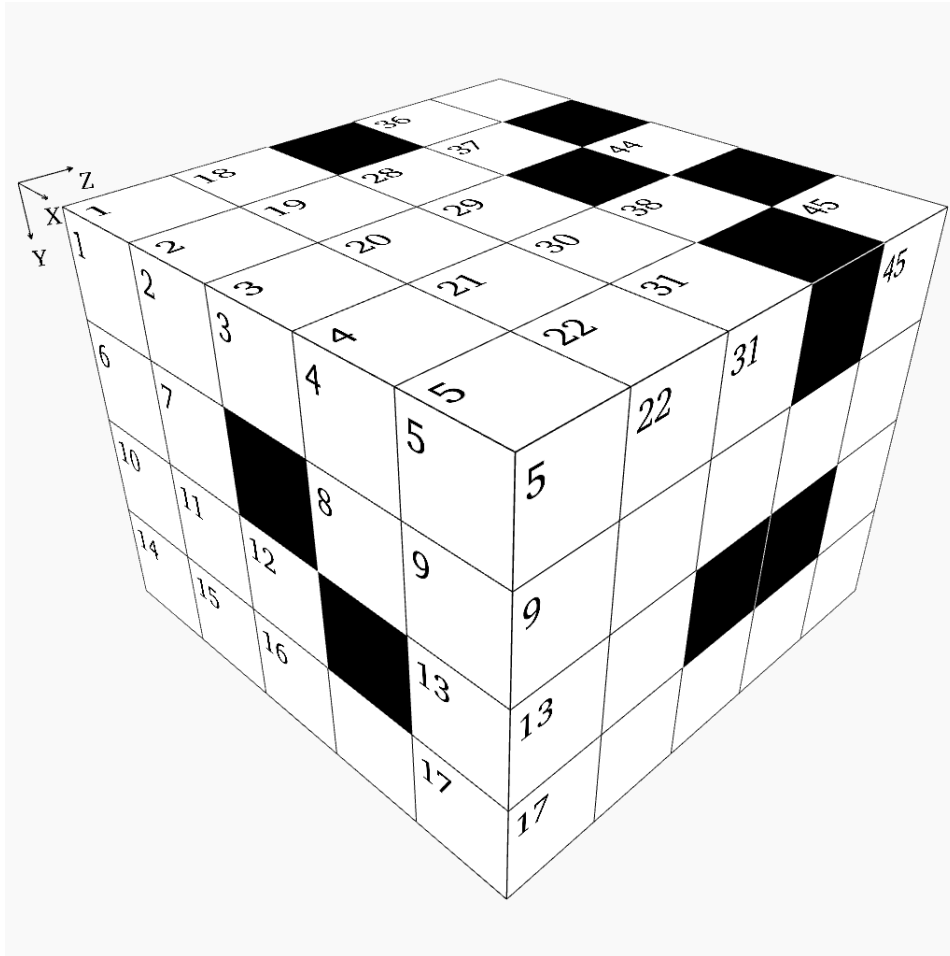


Box - Hard Puzzle #26



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	3	4	5	18	19	20	21	22		28	29	30	31
6	7		8	9	23		24			32				
10	11	12		13	25			26		33				
14	15	16		17	27					34			35	

36	37		38				44		45
39			40			46			
41		42			47				
43					48				

X Direction

- 1 Twenty-five times a prime number
- 6 Z4 minus X41
- 8 Z13 minus Y12
- 10 A prime number
- 14 Four times a prime number
- 18 X32 plus half of X25
- 23 Six times a prime number
- 25 Z36 plus Y29
- 26 Y29 plus Z42
- 27 A square
- 28 Twenty-six times a prime number
- 32 A prime number
- 33 Z1 plus Z13
- 34 Y46 times X27
- 36 Y12 plus Y31
- 39 Half of X46, then subtract Y37
- 40 Y31 plus Z1
- 41 Twice a prime number
- 43 A prime number
- 46 Sixteen times a prime number
- 47 Twenty-four times a prime number
- 48 One thousand four hundred twenty-one more than Z11

Y Direction

- 1 A prime number
- 2 Six times a prime number
- 4 Y20 minus X36
- 5 Four times a prime number
- 12 A square
- 18 Mean of Y38 and Z2
- 19 Rearranged digits of X41
- 20 Y21 minus X40
- 21 X26 plus Y20
- 22 Twenty-six times a prime number
- 28 Y5 plus X8
- 29 Y47 minus Y31
- 30 Thirteen times a prime number
- 31 Mean of Y29 and Y42
- 32 Twice a prime number
- 36 Thirty-eight times a square
- 37 Seventy-four times Z1
- 38 A prime number
- 42 Y12 plus Z36
- 44 Mean of Y30 and Y29
- 45 Mean of Y22 and Y36
- 46 Thirty times Y4
- 47 A square

Z Direction

- 1 Y46 divided by fifteen
- 2 A prime number
- 3 Mean of Y32 and Y47
- 4 Forty-one times Z13
- 5 Twelve times Y31
- 6 Four times a prime number
- 7 Twice a prime number
- 8 A prime number
- 9 Thirteen thousand eighty-eight less than Z14
- 10 Mean of X23 and X28
- 11 One thousand one hundred ten more than Z8
- 13 X10 minus X25
- 14 Forty-eight times a prime number
- 15 Nine thousand four hundred eighty-four less than Z14
- 16 Ninety-three times a prime number
- 17 Two hundred fifty-three more than X32
- 24 Y4 plus X39
- 26 Two hundred twelve more than X47
- 35 Half of X14, then subtract X1
- 36 Mean of Y4 and X33
- 42 X40 minus Y29

Solution:

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

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