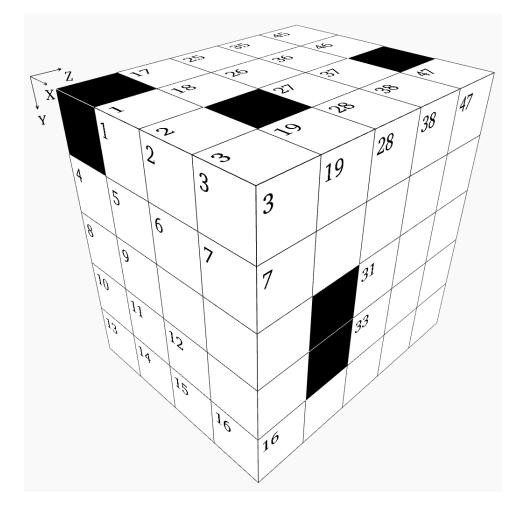


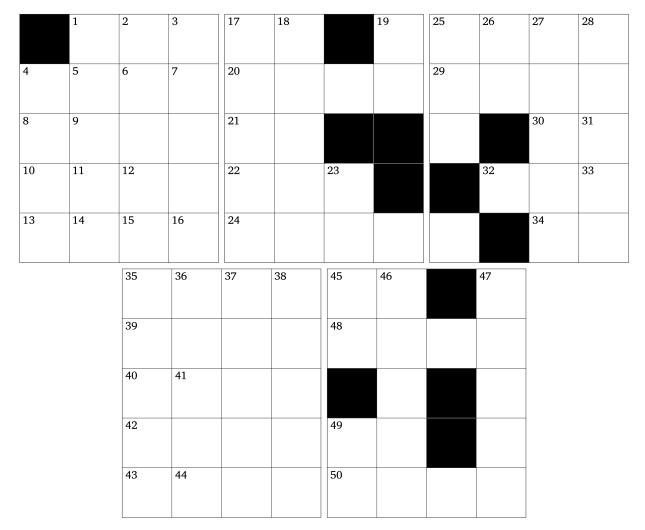
Box - Hard Puzzle #8



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.



X Direction

- **1** Seven times a prime number
- 4 Rearranged digits of X10
- **8** Twice a prime number
- **10** Consecutive digits unordered
- 13 A prime number
- 17 Z27 plus X45
- **20** Ninety-one times a prime number
- 21 Y45 plus Z41
- 22 Seventy-two times X45
- 24 X25 plus half of Z44
- **25** A prime number
- 29 Y26 times X17
- 30 X45 plus Y19
- **32** Four times a prime number
- 34 Z14 reversed
- **35** Four times a prime number
- 39 Z12 minus Z41
- 40 Z15 minus X42
- 42 A prime number
- 43 A square
- 45 Half of Z42, then subtract X21
- **48** Twelve times a prime number
- 49 Z10 minus Y45
- **50** Thirteen times a prime number

Y Direction

- **1** A prime number
- **2** Fifty-three times a prime number
- **3** Y18 minus Y25
- 4 X13 plus Y45
- **17** Three times a prime number
- 18 Twenty-one thousand four hundred ninety-two more than Z16
- **19** Mean of Y45 and Y23
- 23 Z10 minus Y19
- **25** Twelve times a prime number
- 26 Z9 plus Y23
- **27** A prime number
- 28 Y1 plus half of X43
- **35** Sixteen times a prime number
- 36 Fifteen times a prime number
- **37** Nine thousand six hundred eighteen more than Y35
- **38** First two digits are the same as first two digits of X50
- 45 X30 minus half of Z30
- 46 X10 plus X35
- 47 X1 plus half of Z6
- 49 Twice the result of Y4 minus X13

Z Direction

- **1** Seven thousand seven hundred eighty-four more than Z16
- **3** A prime number
- **4** Sixteen times a prime number
- 5 Consecutive digits unordered
- **6** Four times a prime number
- 7 Last two digits are the same as last two digits of Z15
- **8** A prime number
- **9** Y49 plus Z10
- 10 X20 divided by X34
- 11 Mean of Z7 and X8
- 12 Thirty-nine times a prime number
- 13 Its digits total Y19
- 14 Mean of Y19 and Z41
- 15 Two hundred twenty-six less than Y46
- **16** Seven times a prime number
- 17 Eleven times a prime number
 - 27 Mean of Z9 and X34
- **30** Mean of Z14 and Z10
- **31** Y19 times Z44
- **33** Twenty-four times a prime number
- 41 Mean of Y49 and Y45
- 42 Z27 plus Y45
- 44 Mean of X17 and X45

Solution:

	7	4	٩	8	٩		1	3	8	7	7
1	4	2	3	3	3	6	7	7	5	6	5
1	6	2	2	3	5			2		2	8
3	1	4	2	7	٩	2			5	5	6
1	1	1	7	3	٩	0	2	3		٩	1
		7	9	8	8	1	1		1		
		7 4	9 2	8 3	8 0	1 4	1	6	1 4		
								6			
		4	2	3	0		1	6	4		