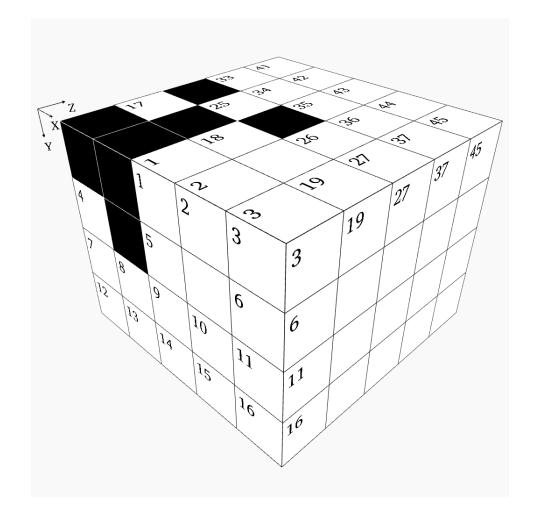


Box - Hard Puzzle #36



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.

		1	2	2	3		17			18				19				25			26	27
4		5			6		20		21							28				29	30	
7	8	9	1	10	11		22					23				31						
12	13	14	1	15	16		24									32						
			33	3	34	35		36	37		41		42		43		44		45			
			38								46											
								39			47											
						40							48									

X Direction

- 1 Mean of Y3 and X5
- **5** Seventeen times a prime number
- **7** Consecutive digits unordered
- **12** Four thousand seven hundred twenty-four more than X22
- 18 Y33 plus Z25
- 20 Fifteen times Z35
- 22 Mean of Z7 and Y4
- **24** Eight hundred ninety-three less than Z3
- 26 Same as Y26
- 28 Mean of Z15 and X31
- **31** Fourteen times a prime number
- **32** One thousand eight hundred fifty-six less than X46
- **33** Z8 plus half of Z5
- **38** A prime number
- **39** X48 divided by X26
- 40 Rearranged digits of Y29
- **41** Nineteen times a prime number
- **46** Twice a prime number
- **47** A prime number
- **48** First two digits are the same as first two digits of Y29

Y Direction

- **1** A prime number
- **2** X48 plus Z13
- **3** Y4 plus Z30
- **4** Seven times a prime number
- 8 Mean of Z1 and Y23
- **17** Y37 minus Y3
- **18** A prime number
- **19** Twice a prime number
- 21 Y44 plus Y34
- 23 X39 minus Z35
- **25** Three times a prime number
- **26** X48 divided by X39
- 27 Z16 minus Y45
- 28 Mean of X18 and Y8
- **29** X24 divided by Y23
- **33** Mean of X40 and Z33
- **34** Mean of X47 and Z35
- 35 Y29 divided by twelve
- 36 Mean of Y2 and X1
- **37** One hundred fifty-eight more than Y45
- **41** A prime number
- **42** A palindrome
- 43 X5 plus Y41
- **44** Twice the result of Y19 minus Y42
- **45** Twenty-two times a prime number

Z Direction

- **1** Two-thirds of Z13
- 2 Seven thousand thirty-six more than Z7
- **3** Sixty-one times a prime number
- **4** Twice a prime number
- **5** Fifty-four times a prime number
- **6** Last two digits are the same as Y26
- **7** Thirty-three times a prime number
- 8 X31 minus Y44
- 9 X24 divided by thirty-two
- 10 Mean of Y34 and Y44
- **11** Twenty-three times a prime number
- **12** Mean of Z13 and X18
- 13 Z25 minus Y35
- 14 Y1 plus half of Z4
- **15** First two digits are the same as first two digits of X40
- **16** Eight times a prime number
- 21 Y25 plus half of Y35
- **25** Five times a prime number
- **30** Six times a prime number
- 33 Z10 minus Y35
- 35 Mean of Y35 and Z33

Solution:

		٩	5	1		6		4	9	5	;		1		7	6
5		F	3	1		5	1	5		3	3	2	9	5	6	3
5	6	4	8	7	1	2	6	6	2	٦	ł	7	4	2		٩
3	1	3	5	1	•	1	4	7	8	4	1	8	1	8	3	0
			3	8	4	3	7		8	5	1	٦	•	7		
			1	6	4	1	7		8	3	6	8	6 (5		
			0			6	٩		1	3	1		:	3		
					5	8	2			5	2	4		4		