

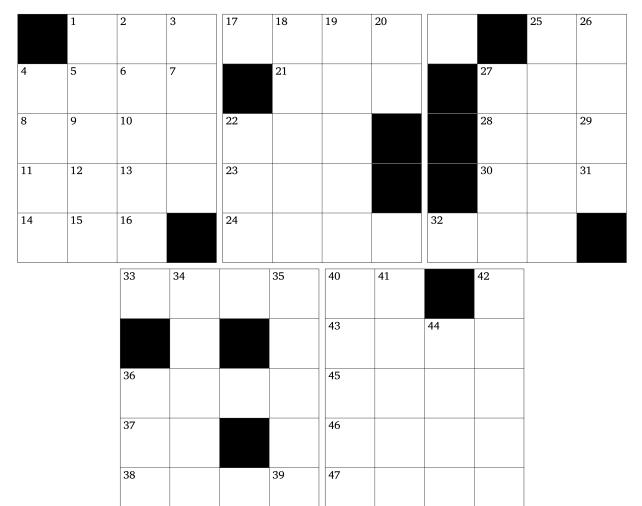
#### ÷., S 5 50 42 9 50 135 2 $\mathbf{r}$ 26 2 3 20 3 5 3 б 7 9 29 1 IJ0 ſŚ 131 $f^{g}$ 39 15 19

# Box - Hard Puzzle #25

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 Eleven times a prime number
- 4 Twice a prime number
- 8 X24 plus Z6
- **11** Three times a prime number
- 14 Fifty-four times a prime number
- **17** Eighty-eight times a prime number
- 21 Mean of Z6 and X28
- **22** Thirteen times a prime number
- **23** Z31 minus X32
- **24** Four hundred eighty-one less than Y4
- **25** Three times a prime number
- **27** Three times a prime number
- 28 Y36 minus Z8
- **30** Forty-four times a prime number
- 32 Z1 plus Z6
- **33** Four times a prime number
- 36 Mean of Y26 and X4
- **37** Y34 divided by X8
- **38** Rearranged digits of X47
- **40** A prime number
- **43** Twice the result of X11 plus X25
- **45** A prime number
- **46** A prime number
- 47 Thirteen times a prime number

# **Y** Direction

- **1** Nine times a prime number
- **2** Thirty-eight times a prime number
- **3** A prime number
- 4 Fifteen times a prime number18 Nine thousand six hundred forty-one less than Y25
- **19** Eight thousand eight hundred sixty less than Z16
- **20** Z15 divided by Y27
- 22 Twice the result of X14 minus X2125 Eighteen thousand eight hundred
- forty-eight more than Y42
- **26** Twelve times a prime number
- **27** Five times a prime number
- **34** X8 times Y20
- **35** Y44 plus half of Z14
- **36** X22 minus X23
- **40** Twelve thousand four hundred thirty-six less than Y18
- **41** X46 plus half of X17
- **42** Forty-seven times a prime number
- 44 Rearranged digits of Z17

# Z Direction

- 1 Three times Z37
- **2** X47 plus X30
- **3** A palindrome
- **5** Twenty times a prime number
- **6** A prime number
- **7** Twelve times a prime number
- 8 A square
- **9** Ten times a prime number
- **10** A prime number
- **11** Twice Z39
- 12 Z16 plus X24
- 13 X40 plus Z11
- **14** Two thousand four hundred eighty-two more than Z12
- **15** X37 times Y27
- 16 Forty-six times a prime number
- **17** X45 plus X1
- 29 Y22 minus Y20
- **31** Eleven times a prime number
- 34 X38 divided by twenty-two
- **36** X8 divided by eighty-five
- **37** Twice a prime number
- **39** Consecutive digits in descending order

# Solution:

	7	3	7	7	8	3	2	8		9	3
3	6	2	2		2	8	3		4	1	1
3	1	4	5	6	1	1			2	8	5
4	4	1	3	2	٩	0			8	3	6
5	٩	4		2	8	6	4	3	5	9	
		1	7	7	2	6	1		7		
			2		Ŧ	٩	0	1	2		
		3	3	8	٩	7	0	7	٩		
		•	_		4	6	0	8	٩		
		2	3		4	O	U	0	•		