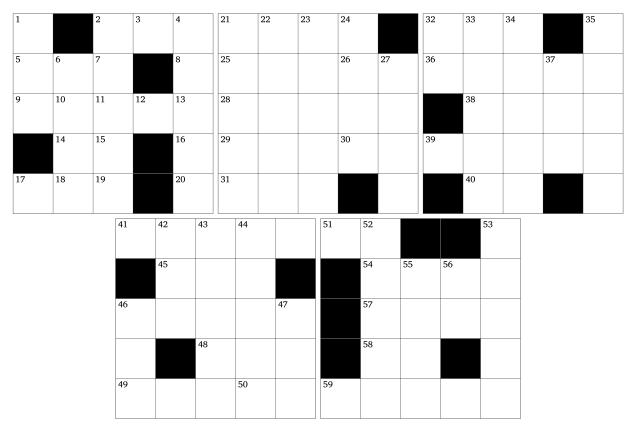


Cube - Hard Puzzle #40

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

- 2 Mean of X32 and Z8
- **5** Z35 minus Z5
- 9 Eleven thousand two hundred eighty more than Y35
- 14 X45 minus half of Y1
- **17** Z15 minus X59
- **21** Fourteen times a prime number
- **25** Eight thousand one hundred seventy-seven less than X9
- 28 Y2 minus Z17
- **29** Eighteen times a prime number
- **31** Z8 plus X2
- **32** Consecutive digits unordered
- **36** First two digits are the same as first two digits of X54
- **38** Twice a prime number
- **39** Z16 minus Y33
- 40 Mean of Z5 and Y56
- **41** Seventy-four times a prime number
- **45** Twenty-four less than Z5
- 46 Ninety-six times a prime number
- 48 Rearranged digits of Y47
- 49 Thirty-one times Y47
- 51 Z49 plus Y56
- **54** Mean of Z50 and Z22
- 57 Fifty-two times a prime number
- 58 Same as X51
- **59** A prime number

Y Direction

- **1** X5 minus X58
- 2 Eight times a prime number
- 4 Nine thousand nine hundred five less than Y34
- 6 Four hundred eighty-six less than Y43
- 21 Y37 times Z8
- **22** Twice X49
- **23** Twenty-one times a prime number
- **24** Sixteen times a prime number
- **27** Eighteen times a prime number
- **32** Z8 minus Y1
- **33** Three times a prime number
- **34** Forty-nine times a prime number
- **35** Five times a prime number
- **37** X49 divided by seventy-three
- 42 Fifteen times Z49
- **43** Twice a prime number
- 44 Half of Z10, then subtract Y43
- **46** A palindrome
- **47** Y22 divided by Y56
- **52** Y24 plus half of Z13
- 53 A prime number
- **55** A prime number
- **56** X58 minus Z49

Z Direction

- 1 Three thousand three hundred twenty-six more than Z12
- 2 Nine times a prime number
- **3** Mean of X14 and X40
- 5 Mean of Y46 and Y56
- **6** Forty-eight times a prime number
- **7** Y34 minus half of Z1
- 8 X57 minus X38
- **9** Z5 divided by three
- 10 Fourteen thousand twenty-eight more than Y21
- **11** Nine thousand less than Y21
- 12 Three thousand two hundred four more than Y43
- 13 Thirty-two times a prime number
- 14 Twenty-eight times Z49
- 15 Sixty-nine times a prime number
- **16** Four thousand eight hundred
- forty-eight more than Z10
- 17 Mean of X45 and Z9
- 18 Mean of Y23 and X2
- **19** Three thousand one hundred fifty-nine less than Z18
- 20 X49 minus X54
- 22 Rearranged digits of Y24
- **26** Twice a prime number
- 29 Two-thirds of Y42
- **30** Rearranged digits of Z8
- **35** X48 minus X14
- **49** Y32 minus X14
- 50 Mean of Z3 and X45

Solution:

1		4	7	F	•	6	4	5	4			7	6	8		3
1	٩	7		1		3	٩	3	3	8	3	2	3	1	3	6
4	7	5	1	5		4	7	4	3	6	5		4	4	4	2
	5	1		8		2	8	0	6		2	1	8	8	1	3
7	2	2		2		6	6	3		2	2		٩	7		5
			6	3	1	2	2	2	8	3			9			
				1	0	8				2	3	6	2			
			2	5	2	4	8	;		4	6	2	. 8			
			0		3	8	0)		8	3		2			
			2	4	8	٩	3	}	1	0	1	1	1			