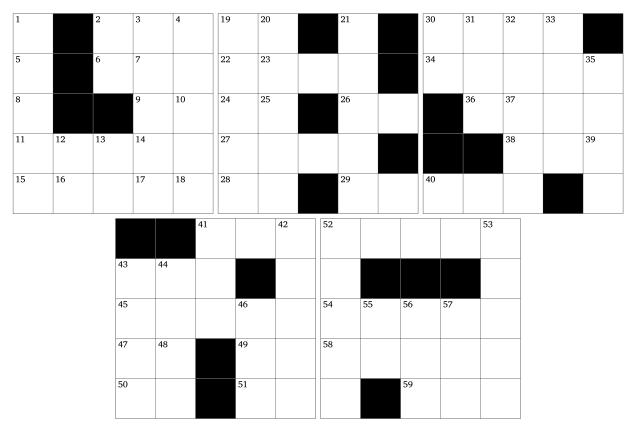


Cube - Hard Puzzle #30

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 Twice the result of X43 plus X28
- **6** Y56 plus Z11
- **9** Y12 minus Y13
- **11** Thirteen times a prime number
- 15 Five times a prime number
- 19 Z20 plus Z45
- 22 Fourteen times a square
- 24 Z1 minus Z35
- 26 X50 minus X29
- 27 Z6 plus Y55
- 28 Z17 minus Z20
- 29 Mean of Z42 and X28
- **30** Fifty-one times a prime number
- **34** Six thousand four hundred forty-one less than Y4
- 36 Twenty-six times X41
- 38 X40 minus Y55
- 40 X26 times X29
- **41** Mean of X26 and Z23
- **43** Z51 times Z11
- 45 Two thousand five hundred twenty-six 46 X50 plus X41 less than Z5
- 47 Mean of X19 and Y12
- **49** Twice the result of Y3 minus Z3
- **50** Z37 divided by Z42
- 51 Mean of Z20 and Z51
- 52 Eleven thousand fourteen less than X15
- 54 Four thousand one hundred
- sixty-eight less than Z18
- 58 Sixty-three times a prime number
- 59 Z37 minus Z32

Y Direction

- **1** Z18 minus Z11
- **2** Mean of Z42 and Z23
- **3** X9 plus Z3
- 4 Last two digits are the same as last two 5 Five times a prime number digits of Z9
- 12 X41 minus X28
- 13 Z47 minus X51
- **19** Two thousand six hundred sixty-six more than X54
- **20** Five times a prime number
- 21 Thirty-three times a prime number
- 30 Y12 plus Z47
- **31** Z42 plus X38
- 32 Mean of Y4 and X54
- 33 Mean of Z25 and Y46
- 35 Its digits total Y13
- 41 Mean of Z17 and Z23
- 42 Twice a prime number
- **43** Twenty-two times a prime number
- **44** Twenty-eight times a prime number
- 52 X52 minus Y30
- **53** A prime number
- 55 Four times Z45
- 56 X22 minus Y31
- 57 A square

Z Direction

- **1** X2 minus Z32
- **3** Three thousand twenty-four more than Y21
- 6 X27 minus Z48
- 7 Nine times Z17
- 8 A square
- **9** Eighty-five times a prime number
- **10** A prime number
- 11 Z12 minus X51
- 12 Mean of Z51 and X19
- 13 X43 minus X6
- 14 Y20 plus Y42
- **15** First three digits are the same as Z1
- **16** Last two digits are the same as X19
- 17 Z32 divided by five
- **18** Thirty-three times a prime number
- 20 Mean of Z11 and Z12
- **23** Z13 plus Y13
- **25** Thirty-seven times a prime number
- 32 Z35 minus Z47
- 35 Mean of X19 and Y31
- 37 X49 times Z42
- **39** A square
- 42 Z35 divided by forty-two
- 45 Twice the result of Z18 minus Y1
- 47 X49 minus Y13
- 48 Z13 minus X49
- 51 Twice the result of X41 minus Z17

Solution:

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