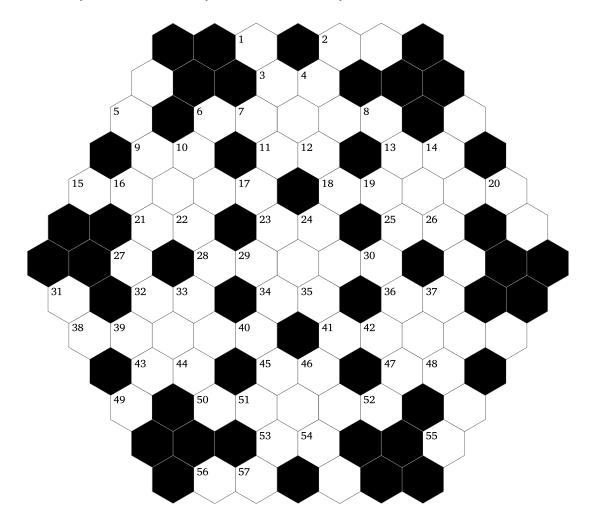
Difficulty:

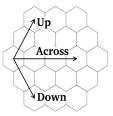
TripleCross - Hard Puzzle #31

This puzzle is like a crossword, but with numbers. Each digit occupies a hexagonal cell and can be a part of a "word" in the across, up, and down directions.

Rules:

- 1. "Words" may not start with a zero.
- 2. "Words" in the 'across' direction read from left to right.
- 3. "Words" in the 'up' direction read along the upward diagonal to the right.
- 4. "Words" in the 'down' direction read along the downward diagonal to the right.
- 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.





Across

- **2** Three times 39 down
- **3** 16 down minus 48 up
- **6** Four thousand one hundred sixty-five less than 57 up
- 9 Mean of 26 up and 51 down
- **11** Half of 19 up
- 13 Twice the result of 54 up minus 36 across
- **15** Ten thousand four hundred seventy-one more than 8 down
- **18** A prime number
- 21 47 across minus 11 across
- 23 Mean of 31 down and 51 down
- 25 10 down plus 2 across
- **28** Nine thousand nine hundred nineteen **42** 37 down plus 7 up more than 41 across
- **32** 16 down minus 7 up
- **34** 54 up minus 21 across
- **36** 54 up minus 7 up
- **38** Mean of 15 across and 35 up
- **41** 52 up minus 44 up
- 43 49 up minus 50 across
- **45** 11 across minus 44 up
- 47 51 down plus 16 up
- **50** Twenty-four times a prime number
- 53 39 up plus 11 across
- 56 Mean of 19 up and 39 up

Up

- 5 A square
- **7** 22 up minus 39 up
- **12** 16 up plus 51 down
- **16** 42 up minus 39 up
- 17 17 down plus 3 across
- **19** Mean of 33 down and 54 up
- 22 Mean of 3 across and 16 down 26 Mean of 34 across and 54 up
- **27** 18 across minus 40 up
- **29** Mean of 12 up and 42 down
- **30** Eleven times a prime number
- 35 Mean of 43 across and 4 down
- 39 13 across minus 7 down
- **40** Thirty-five times a prime number
- **44** 16 up minus 22 up
- 48 Half of 46 down, then subtract 5 up
- **49** A prime number
- 51 45 across minus 21 across
- **52** Five thousand nine hundred eighteen less than 1 down
- 54 7 down plus 29 up
- 55 Twice the result of 52 up minus 41 across
- **57** Thirty-eight times a prime number

Down

- **1** Five thousand nine hundred
- twenty-eight more than 41 across 4 A square
- 5 Two thousand three hundred ninety-six less than 40 up
- 53 across minus 22 up
- 8 A prime number
- **10** 33 down minus 36 across
- 14 39 up plus 23 across
- 16 Mean of 20 down and 34 across
- **17** A palindrome
- 19 9 across plus 35 up
- **20** 44 up plus 55 up
- 24 Mean of 32 across and 2 across
- 27 A prime number
- **29** 19 down minus 55 up
- 30 30 up minus 9 across
- **31** Mean of 24 down and 54 up
- **33** 13 across plus 23 across
- **37** 46 down minus 7 down
- **39** 54 up minus 42 up
- 40 Its digits total 7 up
- 42 Same as 29 down
- 46 55 up plus 56 across
- **51** A square

