

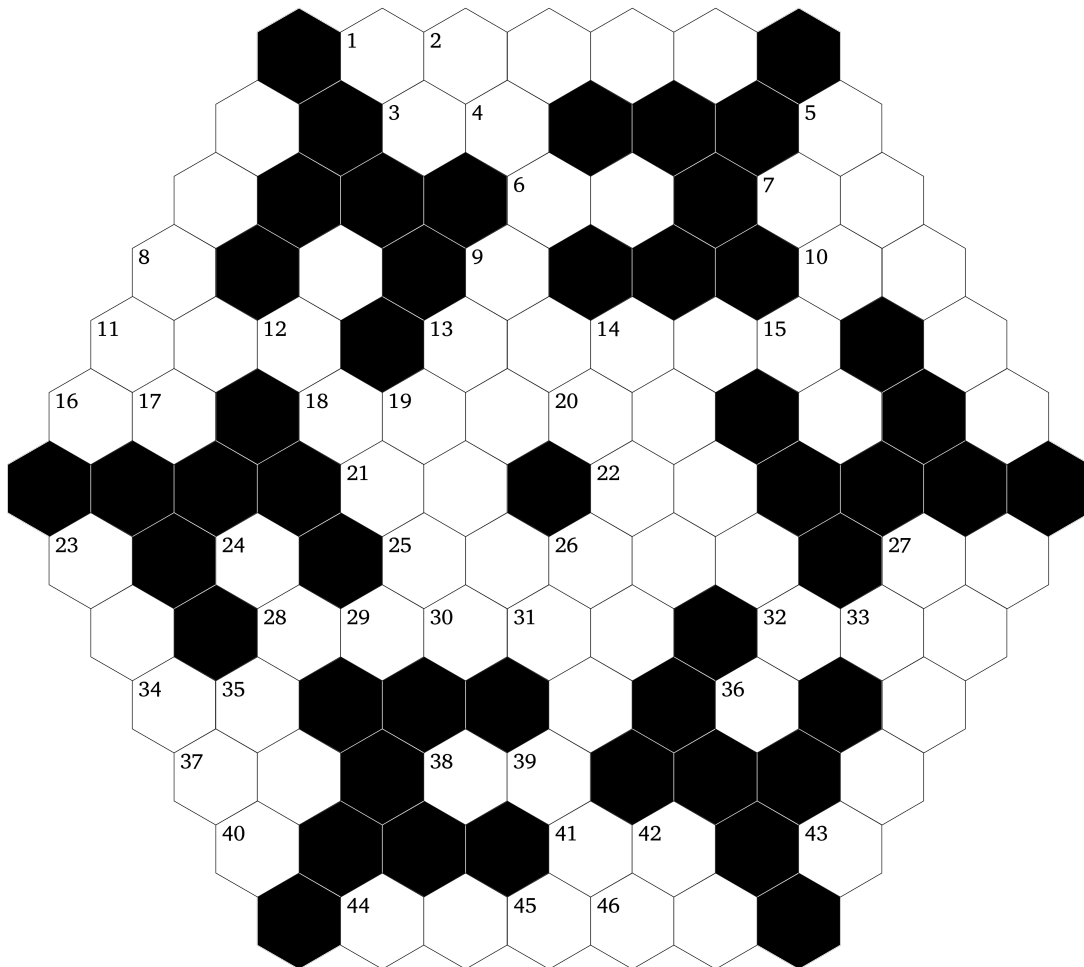
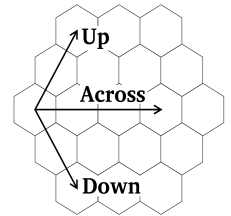
Difficulty: ★★★★★

TripleCross - Hard Puzzle #23

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

- 1 44 across plus 35 down
- 3 38 across minus 30 up
- 6 30 up minus 36 up
- 7 15 up divided by 7 down
- 10 4 up minus 30 up
- 11 Three times a prime number
- 13 Thirteen times a prime number
- 16 20 up minus 7 across
- 18 21 up minus 25 across
- 21 3 up plus 17 up
- 22 26 down plus 6 across
- 25 8 down plus half of 43 up
- 27 45 up plus 12 up
- 28 A square
- 32 24 down times 26 down
- 34 17 up minus 16 across
- 37 Mean of 26 down and 16 across
- 38 27 across minus 7 across
- 41 34 across plus 35 down
- 44 First two digits are the same as 1 down

Up

- 3 1 down minus 13 down
- 4 11 down plus half of 3 across
- 7 30 up minus 20 up
- 12 Mean of 20 up and 16 across
- 15 Half of 2 down, then subtract 15 down
- 16 13 across reversed
- 17 Mean of 21 across and 24 down
- 20 22 across minus 13 down
- 21 Two thousand five hundred seventy-six more than 43 up
- 29 18 across plus 27 down
- 30 6 across plus 12 up
- 31 Five times a prime number
- 33 15 up minus 11 down
- 36 33 down minus 26 down
- 37 A prime number
- 39 Five thousand eight hundred eighty-nine more than 23 down
- 40 Mean of 46 up and 3 across
- 43 Seven thousand one hundred forty-seven less than 39 up
- 45 Mean of 38 across and 13 down
- 46 Twice the result of 40 up minus 16 across

Down

- 1 35 down plus 7 across
- 2 Twice a prime number
- 5 Three times a prime number
- 7 42 down minus 27 across
- 8 24 down plus 6 across
- 9 Its digits total 12 up
- 11 Mean of 41 across and 36 up
- 12 Thirty-four times a prime number
- 13 37 across plus 36 up
- 14 Mean of 5 down and 22 across
- 15 11 down minus 40 up
- 19 Half of 23 down, then subtract 33 down
- 23 Seventy-four times a square
- 24 Mean of 3 up and 7 down
- 26 32 across divided by 7 up
- 27 3 across plus 26 down
- 33 Three times 20 up
- 35 Mean of 45 up and 38 across
- 39 Five times a prime number
- 42 6 across plus 38 across

Solution:

