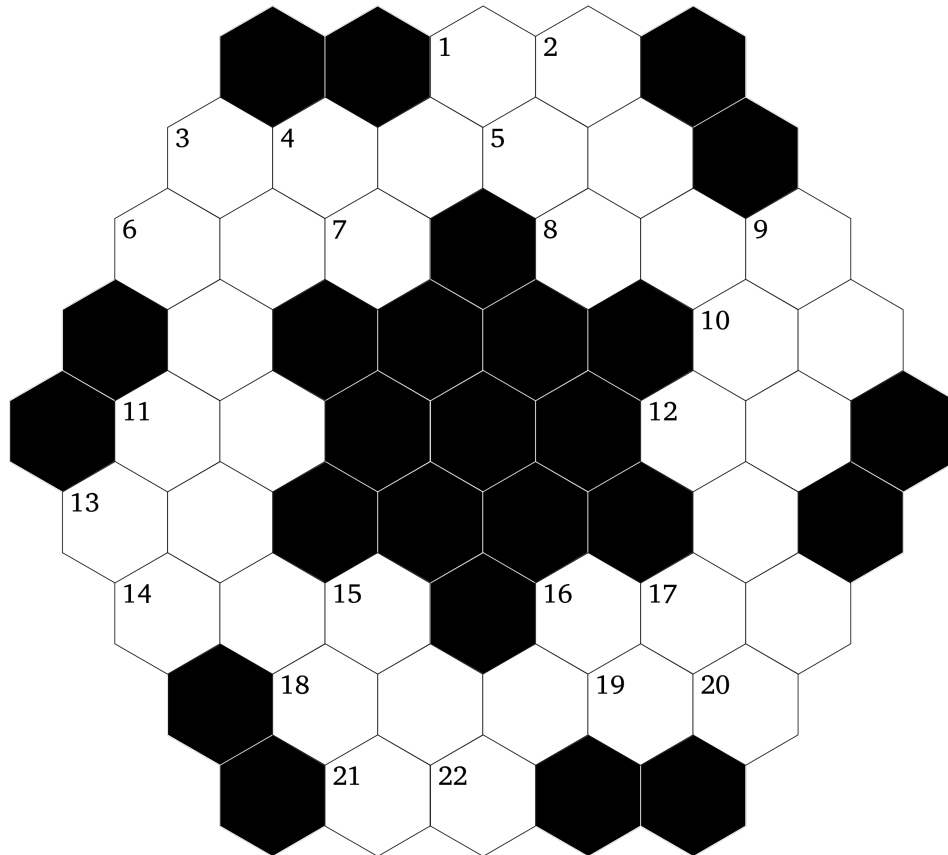Difficulty: ★★☆☆☆

TripleCross - Challenging Puzzle #50

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 15 down minus 12 up
3 Six thousand one hundred ninety-three less than 13 up
6 Half of 3 across, then subtract 18 across
8 Nine times a prime number
10 5 up minus 13 down
11 Mean of 21 across and 18 up
12 A square
13 Mean of 16 down and 21 across
14 Twenty-seven times a prime number
16 Mean of 4 down and 6 down
18 Twenty-four times a prime number
21 A square

Up

5 Twice the result of 10 across plus 1 across
6 A square
7 Three times a prime number
8 Same as 13 across
12 1 down minus 13 across
13 Seventy-seven times a prime number
14 Mean of 6 down and 16 down
18 1 across reversed
19 Thirty-three times a prime number
20 A square
21 Twice the result of 15 down minus 9 down
22 12 down minus 16 down

Down

1 8 up plus 12 up
2 Two thousand two hundred ten more than 18 across
3 12 up minus 5 up
4 Mean of 13 down and 15 down
6 A prime number
9 All digits are the same
11 13 up plus 8 across
12 14 across minus half of 16 across
13 21 up minus 16 down
15 Mean of 4 down and 1 down
16 1 down minus 12 down
17 Six times 12 across

Solution: