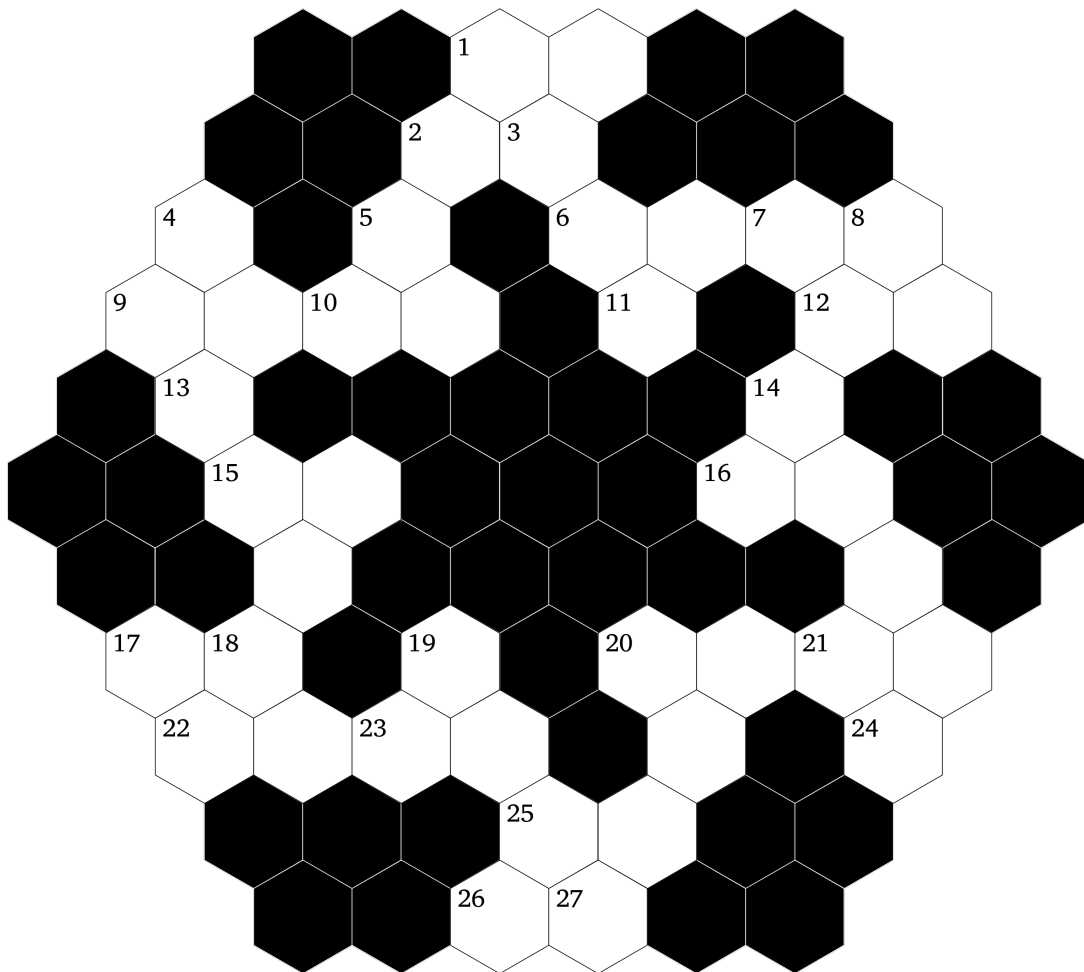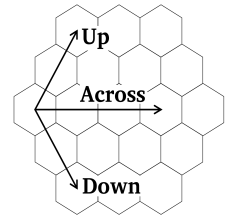Difficulty: ★★☆☆☆

TripleCross - Challenging Puzzle #38

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 Two-thirds of 26 across
2 A cube
6 Thirty-eight times a prime number
9 Four times a prime number
12 A square
15 5 down plus 26 up
16 8 down minus 17 across
17 9 across minus 9 down
20 Four hundred ninety-four less than 9 across
22 6 across minus half of 3 up
25 16 across plus half of 20 down
26 16 across minus 2 across

Up

3 23 up reversed
9 15 across minus 24 up
10 Mean of 19 down and 15 across
11 24 up minus half of 21 down
13 Mean of 7 down and 11 up
16 Six times a prime number
21 Mean of 17 down and 13 up
22 Half of 14 down, then subtract 21 up
23 Mean of 25 across and 12 across
24 Mean of 25 across and 5 down
26 A square
27 A prime number

Down

1 27 up minus 25 across
4 25 across plus 17 across
5 2 across plus 11 up
7 26 up plus half of 4 down
8 Twice the result of 1 across plus 9 up
9 Rearranged digits of 14 down
14 Twelve times a prime number
17 20 across divided by sixty-three
18 24 up plus 2 across
19 A prime number
20 8 down minus 5 down
21 Mean of 13 up and 12 across

Solution: