Difficulty: ★★☆☆☆

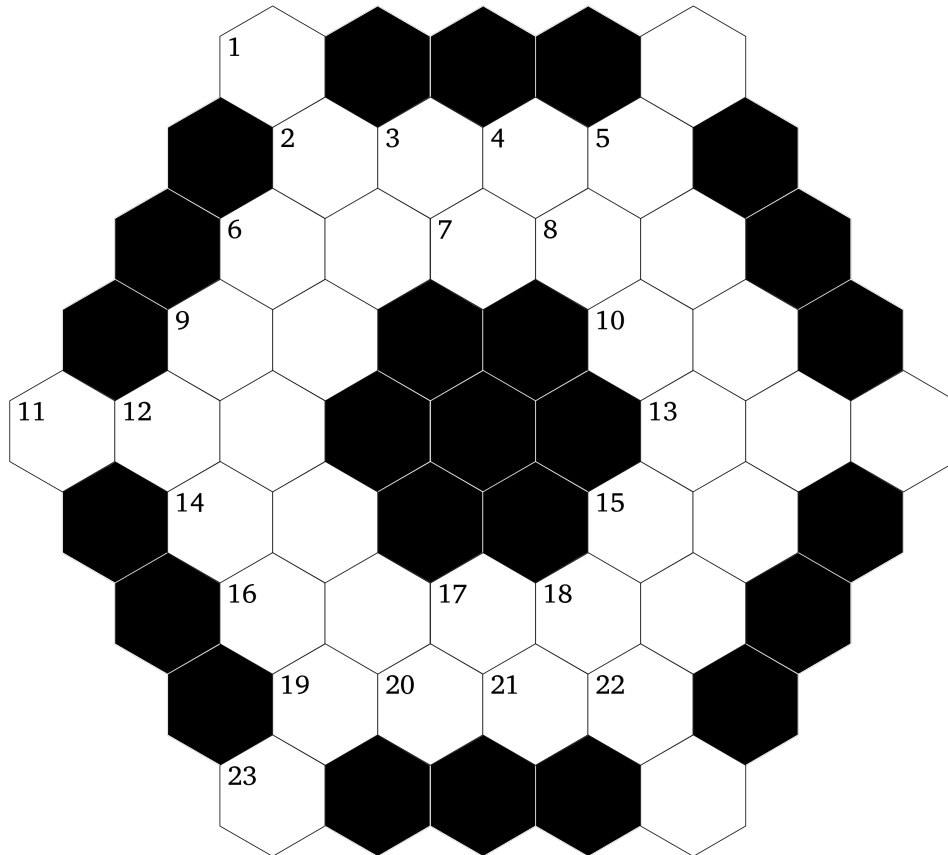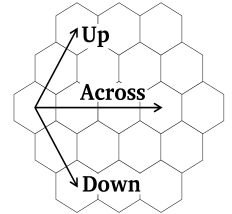# TripleCross - Challenging Puzzle #11

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 Twice the result of 12 up plus 15 across
6 One thousand nine hundred sixty less than 4 down
9 Seven less than 7 up
10 Same as 15 across
11 Thirty-four times 16 up
13 Twenty-two times 6 down
14 11 across divided by thirty-four
15 Same as 10 up
16 5 down plus half of 4 down
19 Eight times a prime number

Up
7 Mean of 15 down and 17 down
8 Twice a square
10 Same as 10 across
12 A prime number
14 Twice a prime number
16 23 up minus 3 down
20 A prime number
21 13 across times 3 down
22 9 down divided by 14 across
23 9 across plus 6 down

Down
1 10 across plus half of 17 down
3 23 up minus 14 across
4 Fifty times a prime number
5 Five times a prime number
6 A square
9 16 up times 22 up
12 A palindrome
15 Same as 10 across
17 Five more than 3 down
18 Mean of 8 up and 11 across

Solution:

1   8
3 8 2 6
2 7 9 9 0
8 5   9 0
7 1 4   5 5 0
2 1   9 0
2 0 9 8 0
1 5 4 4
1   1