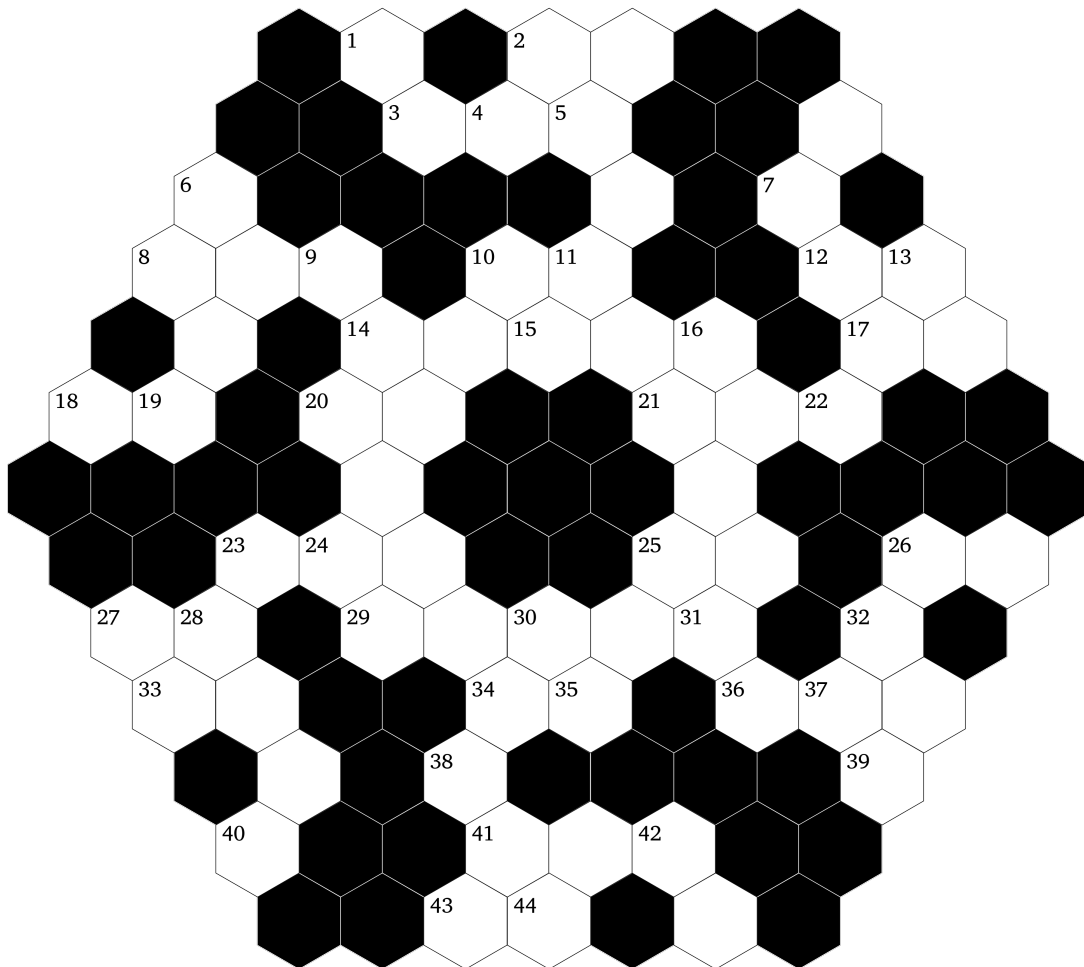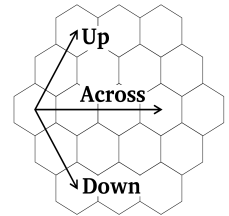# TripleCross - Hard Puzzle #15

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 24 down plus 17 across
3 37 down times 18 across
8 21 across minus 25 across
10 1 down minus half of 34 across
12 31 up minus 30 down
14 Two thousand four hundred more than 24 up
17 A square
18 10 across minus 12 across
20 3 across divided by 18 across
21 8 across plus 21 up
23 21 across minus 40 up
25 15 up minus 20 up
26 A prime number
27 Mean of 1 down and 2 across
29 Eighty-two times a prime number
33 43 across plus 42 down
34 10 down minus 4 up
36 37 up plus 7 up
41 Eight times a prime number
43 37 down plus 44 up

Up

4 7 up plus 37 down
5 Mean of 34 across and 21 up
7 Mean of 6 down and 24 down
8 42 down plus 18 across
15 Mean of 8 down and 28 down
19 Rearranged digits of 23 across
20 2 across minus 16 down
21 10 across plus 26 across
22 4 up times 44 up
24 Last two digits are the same as 31 up
29 8 down minus 33 across
31 5 up plus 20 up
33 Twice a prime number
35 Twice the result of 29 across plus 2 across
37 13 down plus 27 down
38 8 across plus 16 down
39 9 down minus 17 across
40 Twice the result of 28 down minus 8 up
43 27 down minus 17 across
44 1 down minus 33 across

Down

1 5 up plus 30 down
2 22 up minus 29 up
6 8 up minus 44 up
7 24 up divided by 32 down
8 37 up minus 33 across
9 13 down plus 6 down
10 A square
11 Mean of 24 up and 8 down
13 A square
16 4 up plus 20 up
20 A palindrome
24 40 up minus 32 down
25 24 down plus 38 down
27 15 up minus 44 up
28 12 across plus 21 up
30 37 down plus 29 up
32 37 up minus 21 up
37 Same as 20 across
38 36 across plus 33 up
42 9 down minus 2 across

Solution: