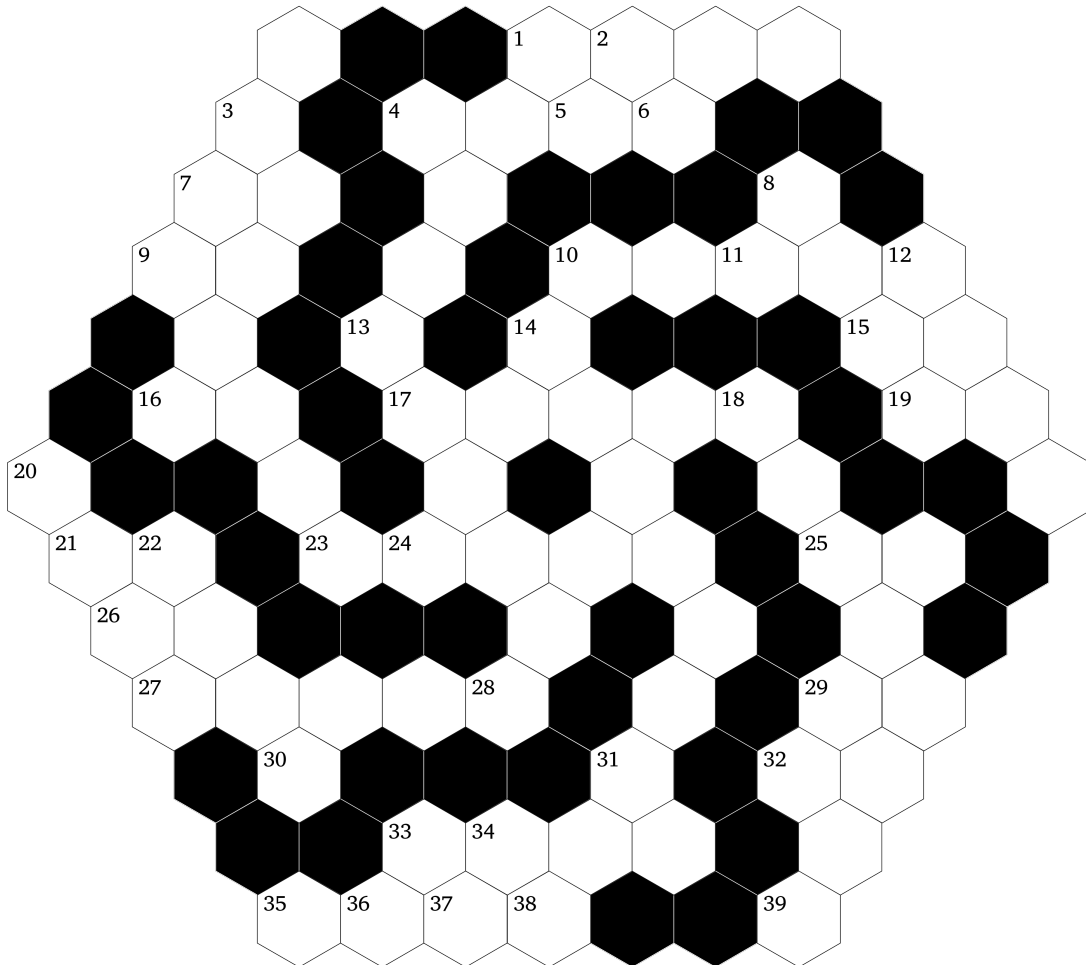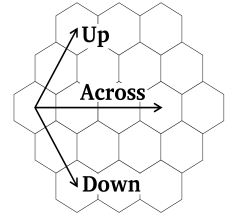# TripleCross - Hard Puzzle #49

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 A prime number
4 9 down divided by 37 up
7 5 up minus 26 up
9 Mean of 25 across and 37 up
10 Sixty-five times a prime number
15 Same as 15 up
16 1 across minus 8 down
17 Twelve times a prime number
19 37 up minus 15 up
21 11 up reversed
23 Sixteen thousand eight hundred sixty-one more than 27 across
25 20 down divided by 9 across
26 Twice the result of 21 across minus 29 across
27 Twice the result of 13 up plus 9 up
29 15 across plus 16 across
32 28 up minus 23 across
33 Thirty-four times a prime number
35 Fifty-four times a prime number

Up

5 11 up plus 2 down
6 Mean of 29 down and 21 across
9 One thousand eight hundred fifty-six more than 12 down
11 27 up minus 15 up
13 A prime number
15 Mean of 15 across and 33 down
16 Four times a prime number
19 Half of 38 up, then subtract 18 down
24 13 down minus 22 down
26 Mean of 16 across and 9 across
27 A square
28 Ten thousand twenty-three less than 17 across
30 Mean of 26 across and 4 down
32 A square
36 10 across divided by 39 up
37 2 down minus 36 up
38 Forty times a prime number
39 Five times a prime number

Down

1 33 down plus 27 up
2 19 up plus 26 up
3 Mean of 5 up and 4 down
4 6 up minus 27 up
7 9 across minus 16 across
8 A prime number
9 3 down times 4 across
12 Mean of 35 across and 16 up
13 Four thousand four hundred ninety-three more than 13 up
14 Ten times a prime number
18 Twenty-five times a prime number
20 One thousand one hundred ninety-eight less than 35 across
22 Consecutive digits unordered
29 Twice 16 across
31 5 up minus 4 down
32 31 down minus 32 across
33 Mean of 16 across and 32 across
34 Same as 32 down

Solution: