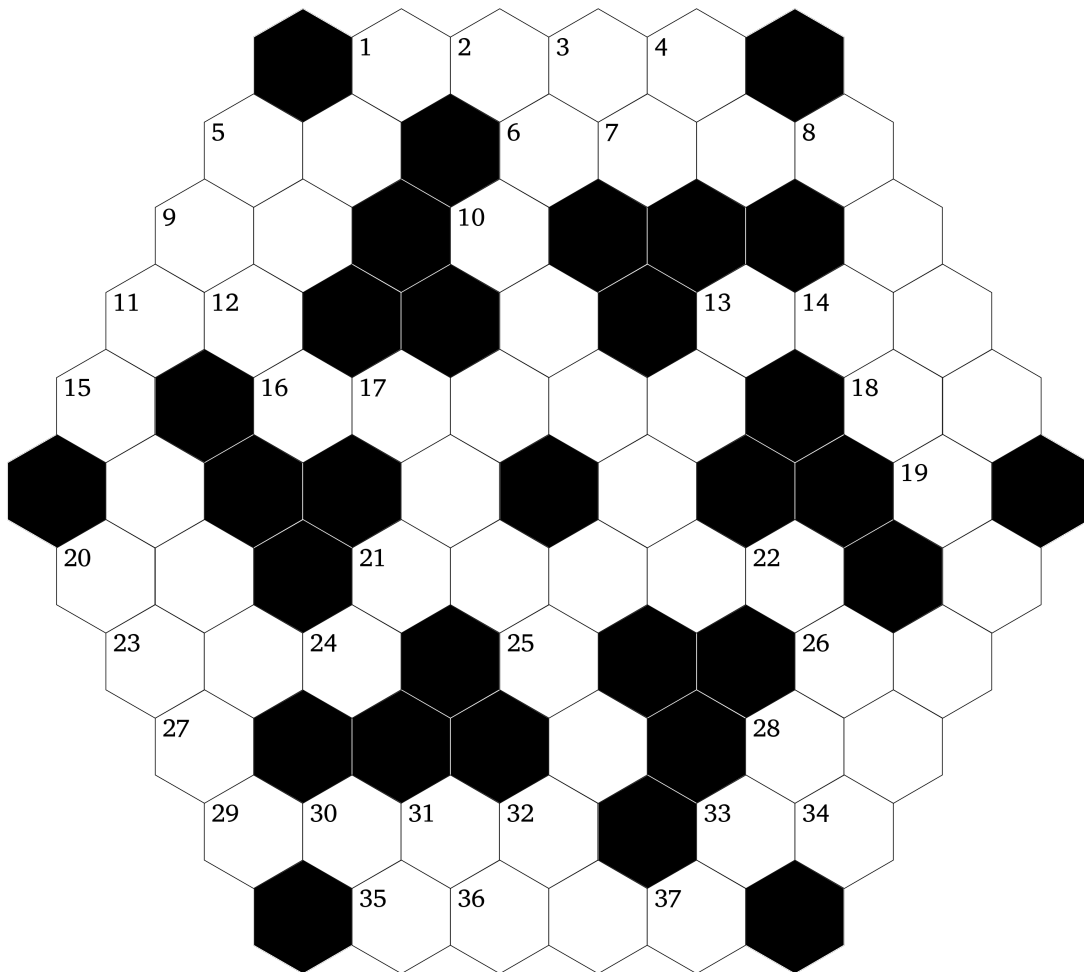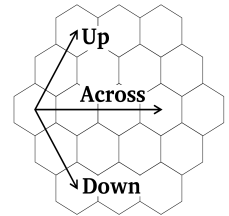# TripleCross - Challenging Puzzle #34

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 Ninety-four times 18 across
5 4 down minus 7 up
6 21 across minus 14 down
9 Mean of 2 down and 5 across
11 18 up minus 30 down
13 15 down minus 20 across
16 Its digits total 33 across
18 28 across reversed
20 Mean of 31 down and 9 across
21 One thousand five hundred fifty-seven more than 29 across
23 A prime number
26 30 down reversed
28 Mean of 5 across and 18 up
29 One thousand four hundred twenty-two less than 34 up
33 5 across minus 19 up
35 29 across plus 22 down

Up

7 20 across minus 2 down
10 Thirteen times a prime number
12 A square
14 4 down minus 2 down
15 Eight times a prime number
18 36 up minus 18 across
19 30 down minus 2 down
20 3 down plus 33 across
23 5 down plus 31 down
24 Five thousand eight hundred seventy more than 16 across
25 34 up plus 28 down
27 Same as 14 up
34 25 up minus 28 across
35 36 up minus 18 across
36 Twenty-one times a square
37 Three times a prime number

Down

2 20 up minus 7 up
3 11 across divided by three
4 26 across minus 3 down
5 20 across plus 9 across
8 Mean of 15 up and 1 across
9 10 down divided by 5 across
10 Thirty-three times a square
14 Twenty times a prime number
15 20 up plus 13 across
17 A prime number
20 10 up times 7 up
22 A prime number
28 Mean of 5 across and 18 up
30 Mean of 28 across and 9 across
31 12 up divided by 36 up
32 Mean of 5 down and 26 across

Solution: