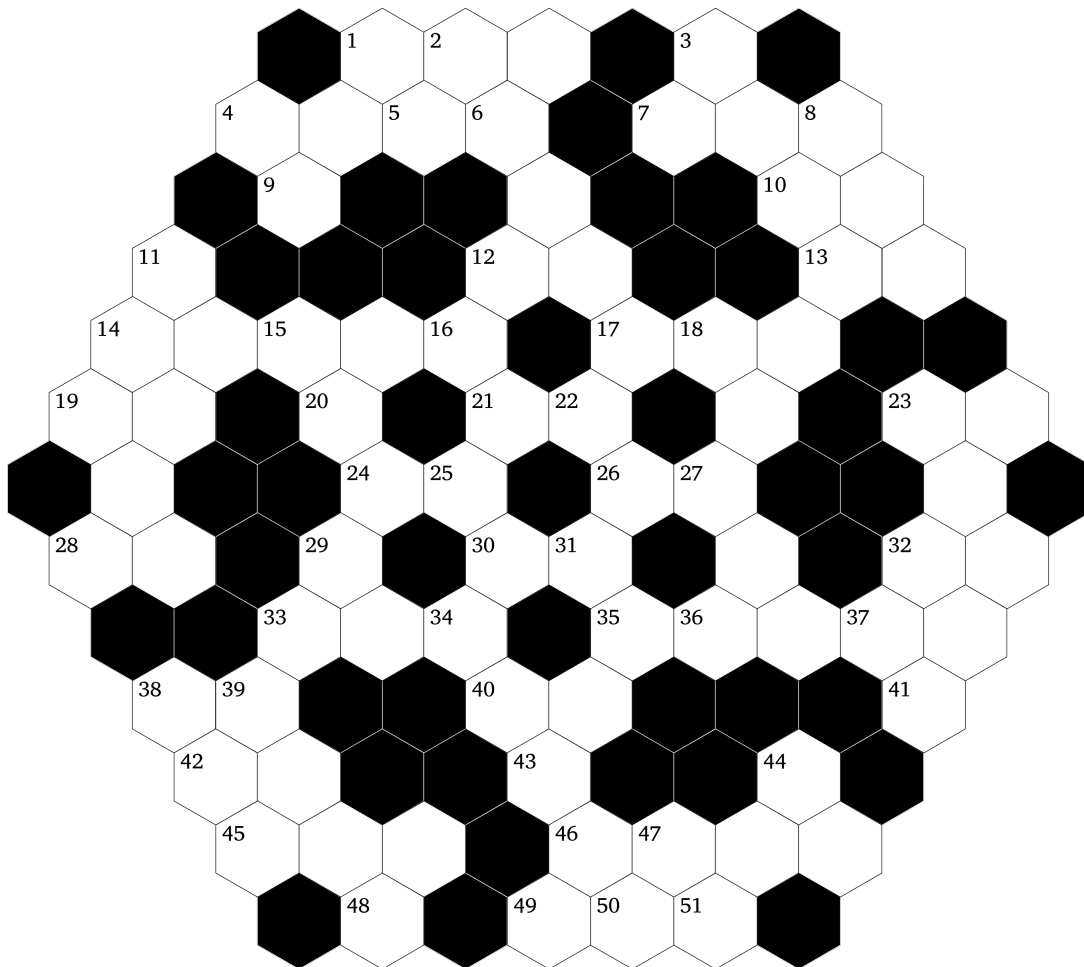
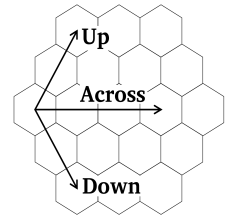


TripleCross - Challenging Puzzle #31

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 Twice the result of 19 up minus 22 up
 4 10 across times 37 down
 7 8 down plus 21 across
 10 33 across minus 18 down
 12 A square
 13 Twice the result of 32 across minus 10 across
 14 Last two digits are the same as 44 down
 17 Twice a prime number
 19 6 up minus 23 across
 21 Mean of 32 across and 18 down
 23 4 across divided by 37 down
 24 Mean of 13 across and 44 down
 26 11 down divided by six
 28 31 up minus 23 across
 30 38 down minus 31 up
 32 29 down minus 4 down
 33 A square
 35 Seven times a prime number
 38 30 across minus 12 across
 40 28 across minus 22 up
 42 24 across minus 19 across
 45 Fifty-one times 38 across
 46 Four times a prime number
 49 12 across plus 21 across

Up

- 5 Same as 44 down
 6 Mean of 12 across and 37 down
 7 15 down minus 24 across
 9 51 up plus 19 down
 10 Half of 23 down, then subtract 33 across
 16 Mean of 7 across and 21 across
 19 23 down minus 7 up
 20 19 down divided by 26 across
 22 A square
 25 Twice the result of 21 across minus 12 across
 27 Ten thousand two hundred ninety-four less than 42 up
 28 Twice a prime number
 31 A square
 34 A square
 36 49 across minus 44 down
 37 A prime number
 41 1 down times 26 across
 42 One thousand twenty-five more than 14 across
 43 Twice the result of 7 across minus 48 up
 45 Mean of 49 across and 44 down
 48 A square
 49 A square
 50 1 down minus 4 down
 51 A cube

Down

- 1 23 across plus 10 up
 3 A prime number
 4 24 across minus 44 down
 8 Mean of 5 up and 41 up
 11 42 across plus 22 down
 14 A square
 15 31 up plus 22 up
 16 38 down minus 33 across
 18 19 up minus 38 down
 19 49 across plus 24 across
 22 45 up minus 25 down
 23 Eighteen times 20 up
 25 Half of 49 across
 27 Twice the result of 16 up minus 18 down
 29 Twice the result of 40 across plus 38 across
 31 Mean of 11 down and 18 down
 32 14 across divided by 17 across
 34 A prime number
 37 11 down minus 10 across
 38 45 up plus 6 up
 39 Twice the result of 28 up minus 51 up
 44 Twice 22 down
 47 7 up minus 38 across

Solution:

