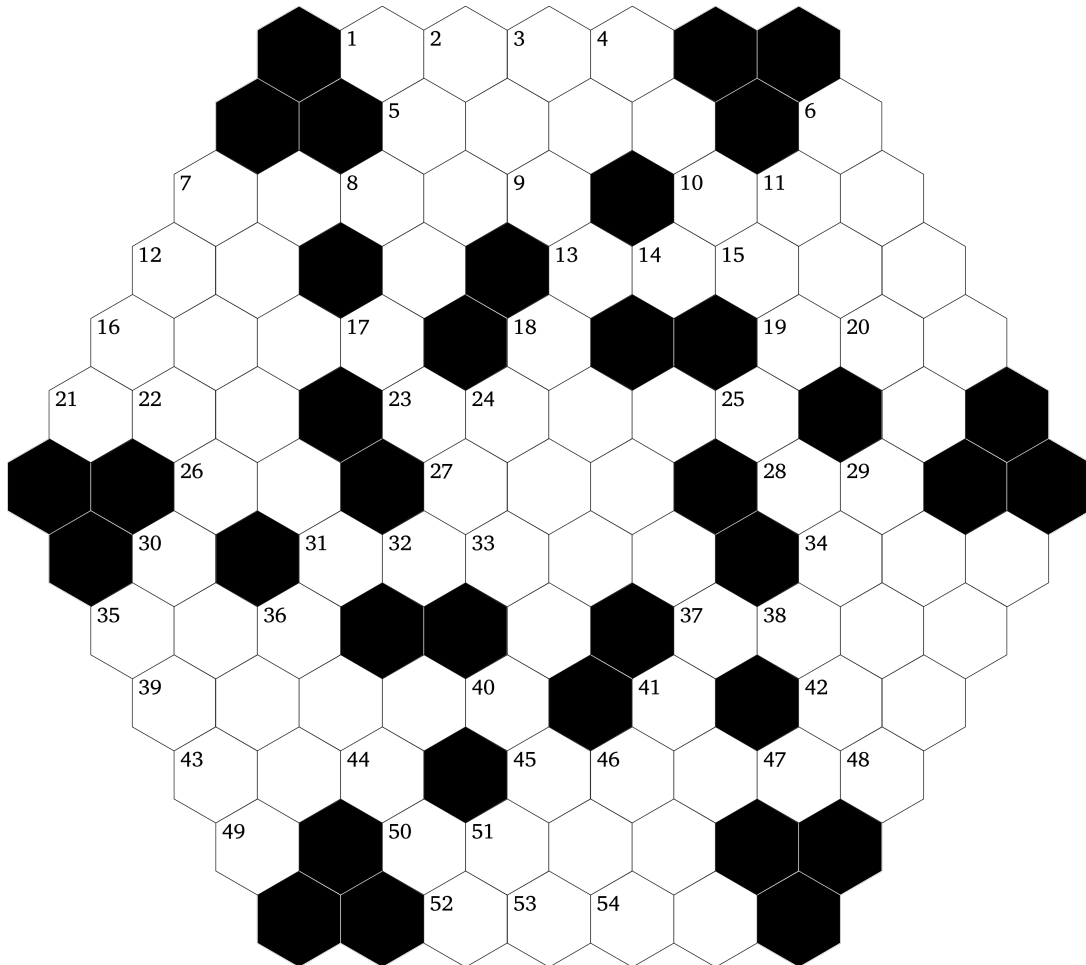
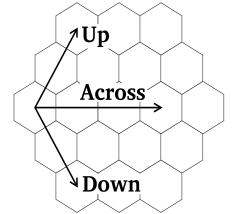


TripleCross - Hard Puzzle #46

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 2 down minus 47 up
 5 Three hundred ninety-nine more than 37 across
 7 Four thousand five hundred twenty-five less than 31 across
 10 42 across plus 51 down
 12 41 down minus 44 up
 13 Four times a prime number
 16 Sixty-two times a prime number
 19 Ten times a prime number
 21 Seven times a prime number
 23 A prime number
 26 3 down minus 51 down
 27 Mean of 46 down and 34 across
 28 A cube
 31 Mean of 53 up and 11 down
 34 16 down plus 14 up
 35 35 up divided by 41 down
 37 Rearranged digits of 47 up
 39 29 down times 44 up
 42 43 up minus 6 down
 43 Same as 49 up
 45 Fifty-six times a prime number
 50 Its digits total 14 up
 52 Sixty-five times a prime number

Up

- 8 Twice a prime number
 9 Mean of 39 up and 25 up
 14 52 up minus 10 across
 15 21 across minus 28 across
 17 Its digits total 26 across
 20 Mean of 51 down and 15 up
 21 Consecutive digits unordered
 22 A prime number
 25 Mean of 48 up and 54 up
 32 Eight thousand seven hundred seventy-one more than 53 up
 33 52 across minus 27 across
 35 41 down times 16 down
 38 Two hundred eighty-six more than 40 up
 39 A square
 40 7 down times 34 across
 43 Six times a prime number
 44 14 up plus 28 across
 47 10 across plus half of 35 down
 48 A prime number
 49 Mean of 42 across and 33 up
 52 52 across minus half of 30 down
 53 Ten thousand five hundred more than 39 across
 54 21 up minus half of 33 up

Down

- 1 52 up plus 15 up
 2 A prime number
 3 15 up minus 51 down
 4 Thirty-five times a square
 6 Twice the result of 1 across minus 21 across
 7 10 across plus 42 across
 8 3 down minus 12 across
 11 Twice a square
 12 Six times a prime number
 16 Mean of 15 up and 19 across
 17 Eighteen thousand ninety-seven less than 38 up
 18 Eight thousand nine hundred fifty more than 53 up
 24 Twenty-four times a prime number
 25 Mean of 7 across and 16 across
 29 46 down minus 15 up
 30 Twelve times a prime number
 35 Last two digits are the same as last two digits of 24 down
 36 A prime number
 38 23 across minus 32 up
 40 A prime number
 41 9 up divided by nine
 46 4 down minus 5 across
 51 Twice 28 across

Solution:

