

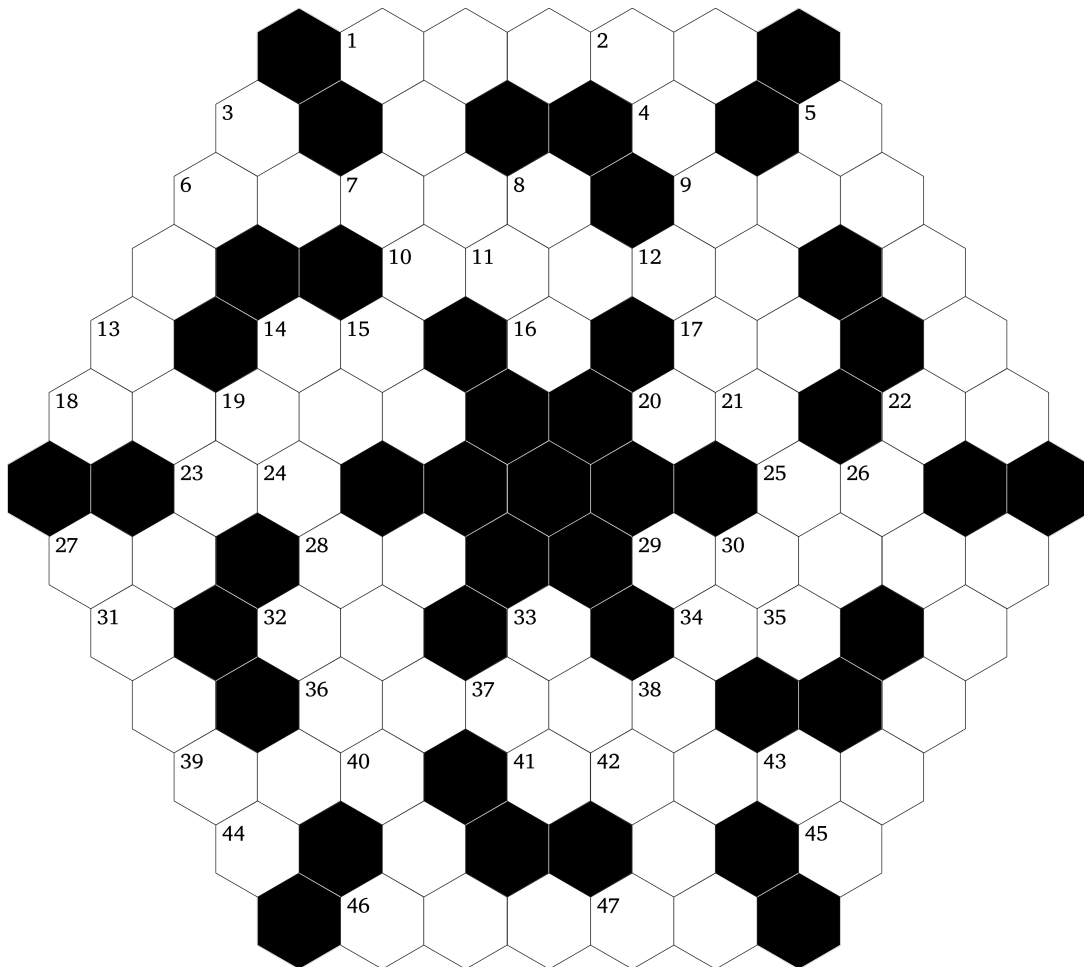
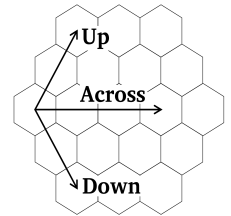
Difficulty: ★★★★★

TripleCross - Hard Puzzle #47

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 Two thousand six hundred fifty-eight less than 1 down
- 6 Four thousand nine hundred fifty-one more than 20 up
- 9 47 up plus 46 up
- 10 Last two digits are the same as last two digits of 5 down
- 14 32 across minus 41 up
- 17 Mean of 20 across and 41 up
- 18 Mean of 24 up and 1 across
- 20 34 across minus 43 down
- 22 16 up plus 25 across
- 23 Half of 32 across, then subtract 46 up
- 25 Same as 3 down
- 27 Sum of digits in 5 down
- 28 21 up minus half of 41 up
- 29 Five times a square
- 32 12 up plus 20 across
- 34 A square
- 36 44 up plus half of 45 up
- 39 Four times a prime number
- 41 Ten thousand three hundred twenty-seven more than 45 up
- 46 47 up times 43 down

Up

- 4 38 down minus 21 up
- 7 Nine times 37 up
- 11 Mean of 7 down and 34 across
- 12 39 across minus 7 up
- 16 28 across minus 23 across
- 18 Seven thousand six hundred eighty-four more than 41 across
- 20 Four times a prime number
- 21 Mean of 11 up and 34 across
- 24 Twenty-one times a prime number
- 31 A prime number
- 32 Mean of 32 across and 40 up
- 35 Twice the result of 41 across minus 6 across
- 37 Eight times 46 up
- 40 Twice the result of 11 up minus 15 down
- 41 23 across plus 3 down
- 42 A prime number
- 44 Fifty-three times a prime number
- 45 Two thousand five hundred ninety-six more than 20 up
- 46 47 up divided by 14 across
- 47 46 across divided by 17 across

Down

- 1 31 up minus 29 across
- 2 A prime number
- 3 Sum of digits in 18 up
- 5 Ten thousand eight hundred thirty-four less than 31 up
- 7 41 up plus 15 down
- 8 Mean of 3 down and 34 across
- 12 Five times a prime number
- 13 20 up minus half of 33 down
- 14 Mean of 14 across and 29 down
- 15 32 up minus 12 up
- 19 Sixty-two times a square
- 26 Twenty-two times 15 down
- 27 A prime number
- 29 9 across divided by 4 up
- 30 23 across plus 46 up
- 32 Nine times a prime number
- 33 Twenty-two thousand seven hundred ninety-three less than 24 up
- 37 46 up plus 32 across
- 38 Twice 22 across
- 43 4 up plus 29 down

Solution:

