

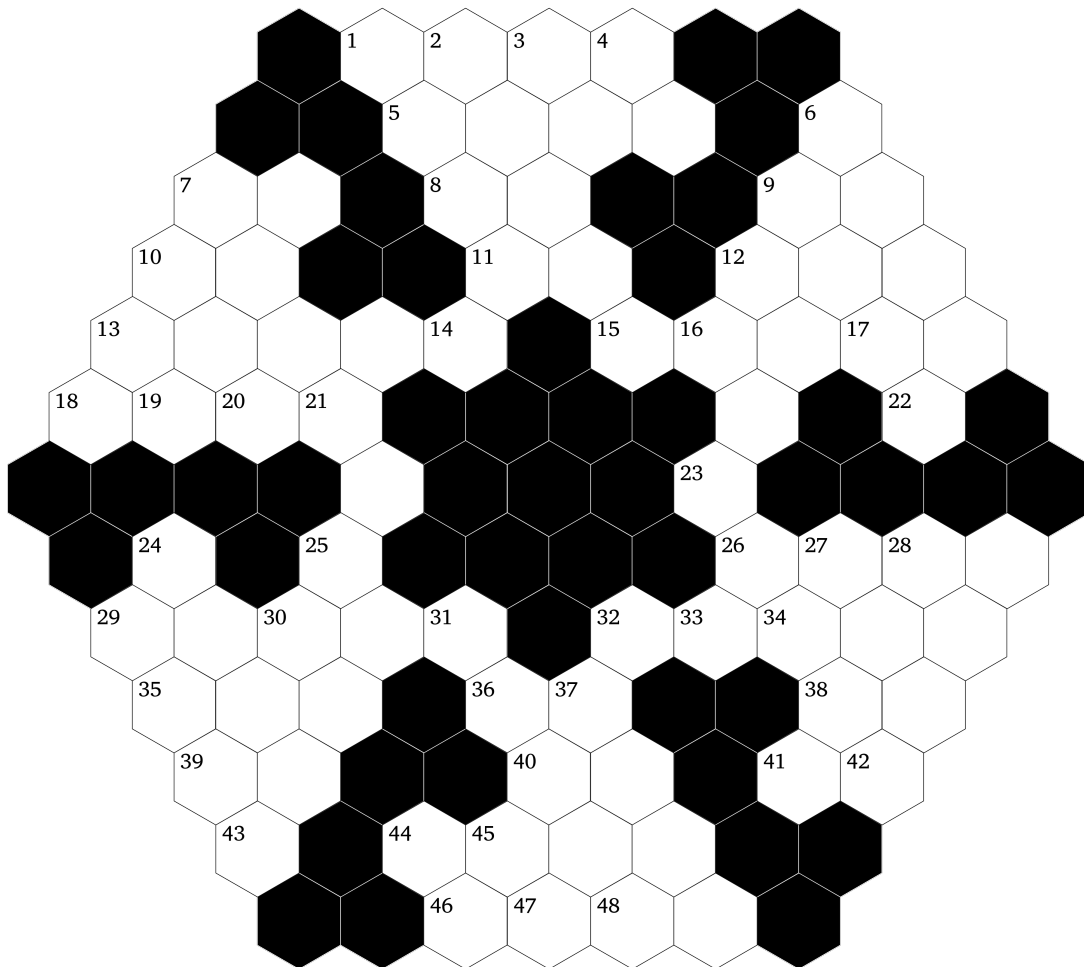
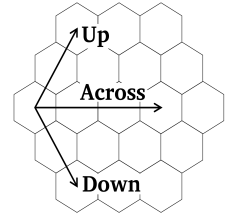
Difficulty: ★★★★★

TripleCross - Hard Puzzle #42

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 Seventy-seven times a prime number
- 5 Twelve times a prime number
- 7 29 down divided by 22 up
- 8 29 up plus 5 up
- 9 12 down minus 29 up
- 10 A square
- 11 4 down minus 45 down
- 12 Three times a prime number
- 13 32 across minus 10 across
- 15 A prime number
- 18 3 down plus 37 down
- 26 Seven hundred sixteen less than 5 across
- 29 Mean of 31 down and 24 down
- 32 13 across plus 20 up
- 35 37 down minus 46 across
- 36 Mean of 7 across and 17 up
- 38 8 up minus 35 across
- 39 A square
- 40 38 across minus 5 up
- 41 Mean of 12 down and 22 up
- 44 18 up minus 44 down
- 46 10 down plus half of 37 down

Up

- 5 26 across divided by 4 down
- 8 Nine times a prime number
- 14 Nineteen times a prime number
- 16 2 down divided by 39 across
- 17 7 across plus 45 down
- 18 6 down plus 41 across
- 19 A prime number
- 20 A square
- 21 Sum of digits in 9 down
- 22 Mean of 48 up and 8 across
- 23 44 across times 9 across
- 29 36 across minus 21 up
- 33 39 across plus 34 up
- 34 Mean of 38 across and 48 up
- 35 3 down plus 5 up
- 39 Twenty-three times a prime number
- 41 Twice a prime number
- 42 Twice a prime number
- 43 Six times a prime number
- 46 Sixty-three times a prime number
- 47 40 across times 13 down
- 48 44 down plus 13 down

Down

- 1 Six times a prime number
- 2 16 up times 25 down
- 3 23 up divided by 44 across
- 4 28 down plus 16 down
- 6 Nineteen times a prime number
- 7 A prime number
- 9 Six times a prime number
- 10 A square
- 12 Same as 17 up
- 13 41 across minus 7 across
- 16 10 down divided by 5 up
- 23 1 down times 13 down
- 24 Six hundred ninety-eight more than 1 down
- 25 Half of 34 up, then subtract 16 down
- 27 First two digits are the same as 28 down
- 28 A square
- 29 Six hundred fifty-four more than 18 up
- 30 28 down minus 13 down
- 31 Consecutive digits unordered
- 37 18 across minus 9 across
- 44 Half of 10 across
- 45 Mean of 16 down and 13 down

Solution:

