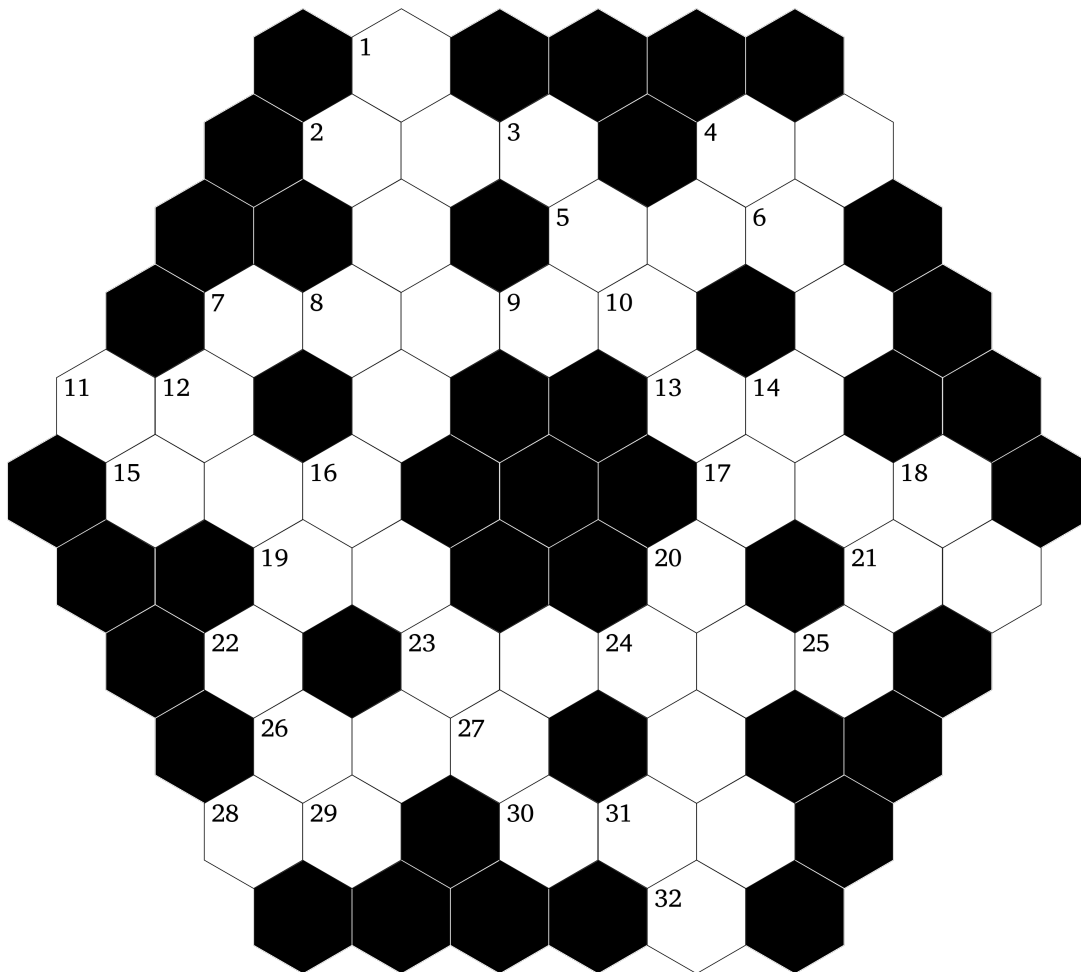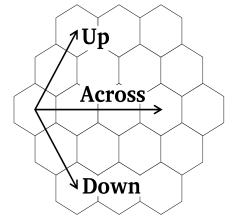Difficulty: ★★☆☆☆

TripleCross - Challenging Puzzle #56

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

2 30 across plus 19 across
4 17 across minus 30 across
5 Thirty-three times 13 across
7 Mean of 3 down and 4 across
11 A square
13 19 across minus 31 down
15 Two hundred thirty-five less than 4 down
17 A prime number
19 Mean of 11 down and 27 up
21 13 across plus 19 across
23 Six thousand four hundred seventy-nine less than 7 across
26 1 down times 9 up
28 Mean of 9 up and 10 up
30 Three times a prime number

Up

2 20 down minus 9 up
6 26 across minus 17 across
8 Thirty-five times 32 up
9 20 down minus 28 across
10 24 down minus 13 across
15 23 across divided by 6 up
22 Fifty-two times a prime number
24 Mean of 31 up and 7 across
25 Mean of 12 down and 18 down
27 Mean of 13 across and 28 up
28 Twice the result of 2 down minus 15 across
29 Mean of 15 up and 31 up
31 Mean of 1 down and 25 up
32 A cube

Down

1 11 down plus 18 down
2 Twice a prime number
3 Eighty-four times 4 down
4 Six times 24 down
8 Mean of 27 up and 10 up
11 A cube
12 Forty-two times 31 down
14 8 up minus 10 up
16 Last two digits are the same as last two digits of 24 down
18 4 down minus 5 across
20 22 down minus 8 down
22 32 up plus 24 down
24 3 down divided by 12 down
31 14 down divided by 21 across

Solution: