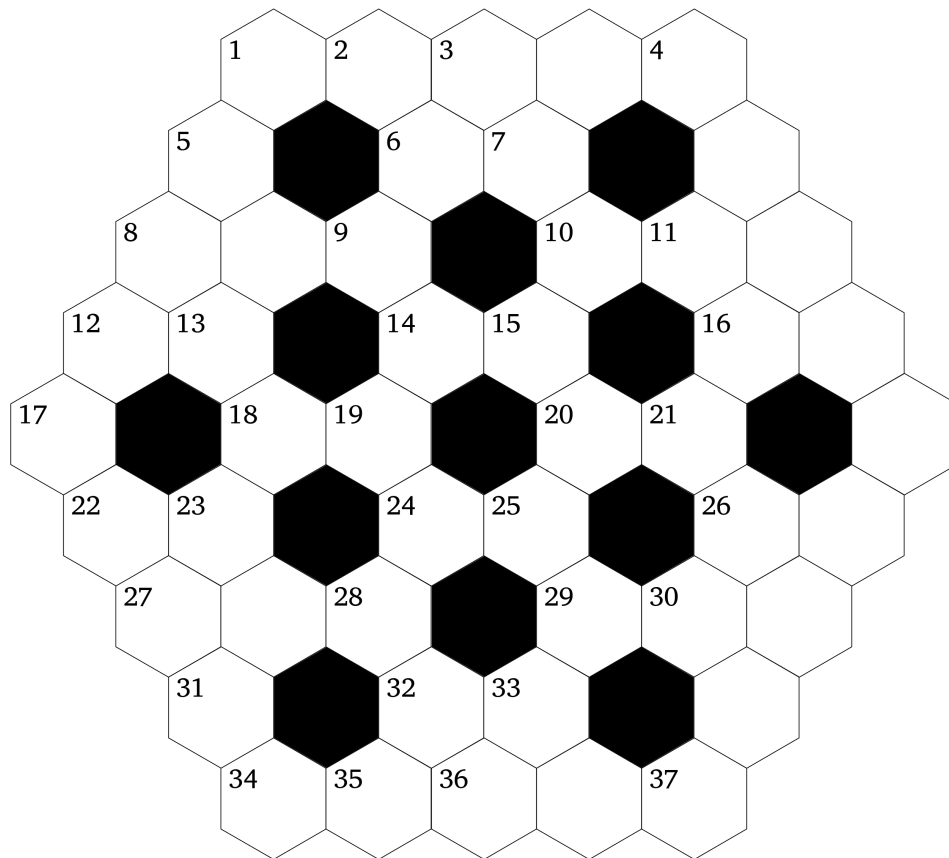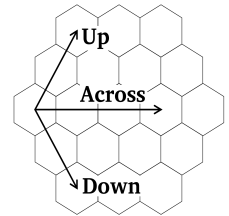# TripleCross - Challenging Puzzle #20

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 First two digits are the same as first two digits of 21 up
6 28 up plus 13 up
8 8 down minus 15 down
10 36 up plus 13 up
12 8 across divided by 9 down
14 19 down plus 33 down
16 A square
18 7 up minus 5 down
20 18 across reversed
22 28 up minus 33 down
24 28 up minus 16 across
26 24 across plus 13 up
27 11 down plus 3 down
29 Forty-one times 31 up
32 Mean of 14 across and 15 up
34 Three times a prime number

Up

7 1 across divided by 27 up
9 Mean of 21 up and 11 up
11 32 across plus 19 down
13 Mean of 33 down and 31 up
15 Mean of 23 down and 2 down
17 A prime number
19 A cube
21 21 down minus 30 up
25 10 across divided by seven
27 One hundred eight more than 3 down
28 A square
30 25 down minus 19 up
31 12 across minus 7 up
35 26 across minus 12 across
36 18 across times 9 down
37 Mean of 17 up and 29 across

Down

2 15 up minus 16 across
3 28 down minus 5 down
4 Twice a prime number
5 28 up minus 32 across
8 18 across plus 8 across
9 36 up divided by 15 down
11 3 down minus 10 across
15 Same as 18 across
17 Its digits total 22 across
19 Three-fourths of 18 across
21 Seven times 30 down
23 Mean of 33 down and 12 across
25 21 down minus half of 10 across
28 Five times a prime number
30 7 up plus 31 up
33 A square

Solution: