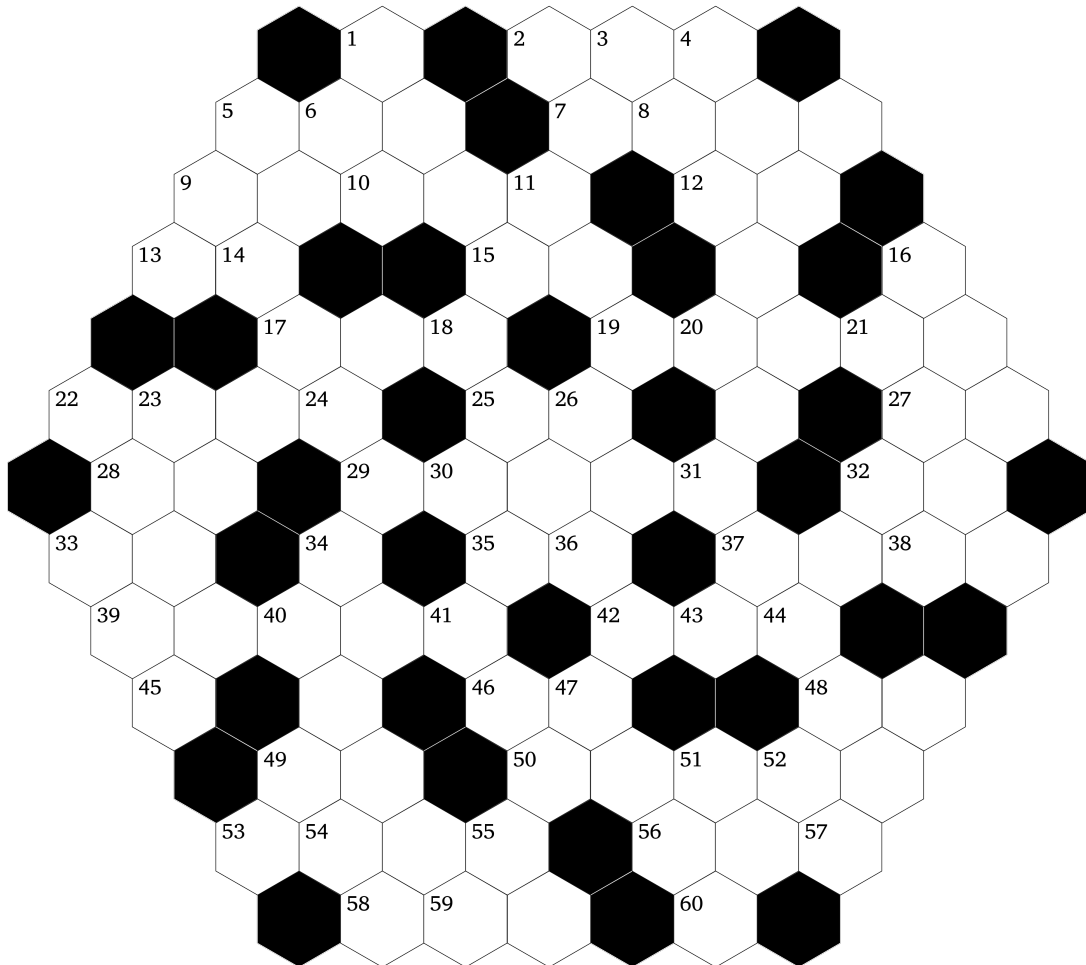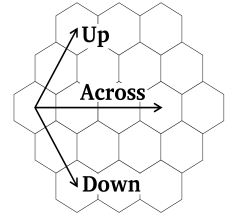# TripleCross - Hard Puzzle #20

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

2 Seventeen times 32 across
5 33 across plus half of 33 up
7 41 up divided by 30 down
9 A prime number
12 45 up divided by three
13 39 across divided by 2 across
15 Mean of 36 up and 43 up
17 Five times 46 across
19 Three hundred eighty-one less than 50 across
22 21 down minus 32 down
25 27 across minus 58 up
27 59 up divided by 58 across
28 50 across divided by 56 across
29 Nineteen thousand two hundred forty-four more than 3 down
32 51 down minus 30 down
33 46 across plus 48 across
35 39 across divided by 2 across
37 A prime number
39 2 across times 25 across
42 Fourteen times 51 down
46 27 across minus 45 up
48 Mean of 34 down and 32 down
49 15 across minus 45 up
50 Last two digits are the same as last two digits of 29 across
53 Sixty-three times 30 up
56 Forty-three times 12 up
58 42 across reversed

Up

8 52 down minus 49 across
10 Same as 48 across
12 43 up reversed
13 27 across plus 15 across
14 22 down minus 34 down
18 Twice a prime number
20 Twice a prime number
21 Mean of 54 up and 4 down
24 Mean of 32 down and 36 up
30 56 up minus 49 across
31 Twenty-nine times 25 across
33 33 down plus 20 down
36 40 up minus 31 up
38 33 across plus 16 down
39 One hundred fifty-seven less than 39 across
40 31 up plus 26 down
41 7 across times 30 up
43 27 across minus 45 up
44 Five thousand one hundred sixteen more than 9 down
45 Sum of digits in 9 down
53 37 across plus half of 21 up
54 48 across minus half of 12 across
56 Mean of 23 down and 34 down
57 Same as 5 across
58 5 down plus 12 across
59 Seventy-three times a square
60 A prime number

Down

1 60 up minus half of 41 down
2 35 across plus 28 across
3 A prime number
4 23 down plus 56 up
5 26 down minus 34 down
6 36 up minus 49 across
9 Nine thousand one hundred fifty-seven less than 40 down
11 36 up plus 34 down
16 11 down reversed
18 Its digits total 20 down
20 A square
21 22 across plus 32 across
22 4 down times 58 up
23 5 down plus 32 down
26 11 down minus 34 down
30 53 across divided by sixty-three
31 9 across minus 42 across
32 51 down minus 30 down
33 41 down minus 10 up
34 53 up divided by 32 across
40 Five thousand two hundred ninety-four more than 3 down
41 33 down plus 48 across
47 Six times a prime number
49 Four times a prime number
51 12 up plus 10 up
52 51 down plus 30 down
55 58 up minus 20 down

Solution: