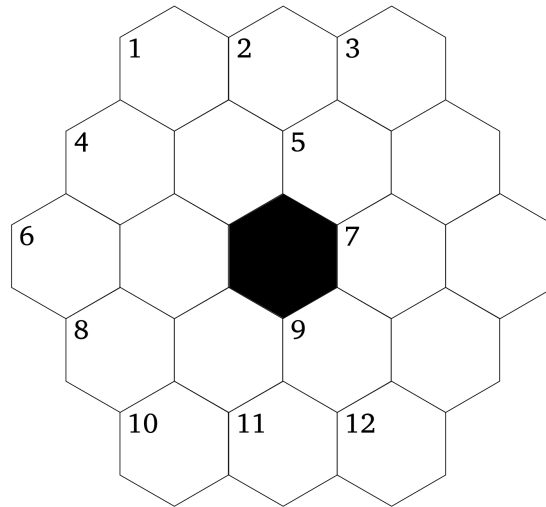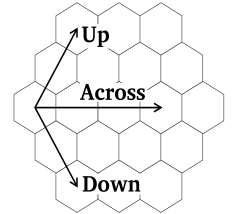# TripleCross - Challenging Puzzle #48

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 Rearranged digits of 3 down
4 Half of 8 up, then subtract 6 up
6 Twelve times a prime number
7 Twice a prime number
8 Eight times a prime number
10 A prime number

Up

5 All digits are the same
6 A prime number
8 Four times a prime number
10 Five times a prime number
11 Seven times a prime number
12 Twice the result of 10 across plus 7 across

Down

1 9 down plus 7 across
2 Sixteen times a prime number
3 4 down minus 6 across
4 Eighty-seven more than 1 across
6 A prime number
9 Mean of 5 up and 10 up

Solution: