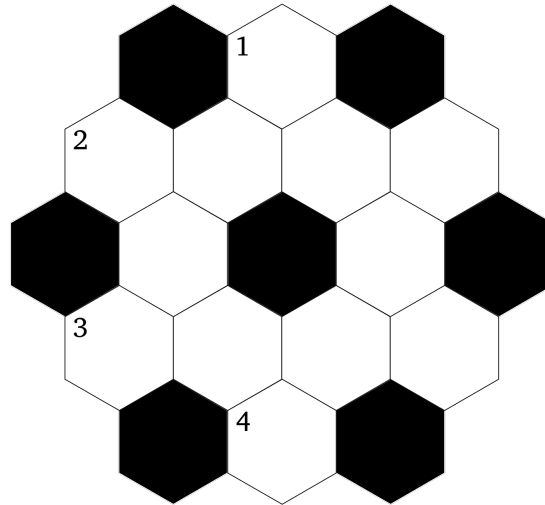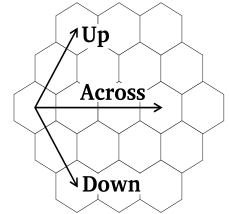Difficulty: ★☆☆☆☆

TripleCross - Intermediate Puzzle #23

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 Twenty-two times a prime number
3 Mean of 2 across and 4 up

Up
3 A prime number
4 First, and third digits are the same

Down
1 Five hundred ten more than 2 down
2 Seventy-seven times a prime number

Solution: