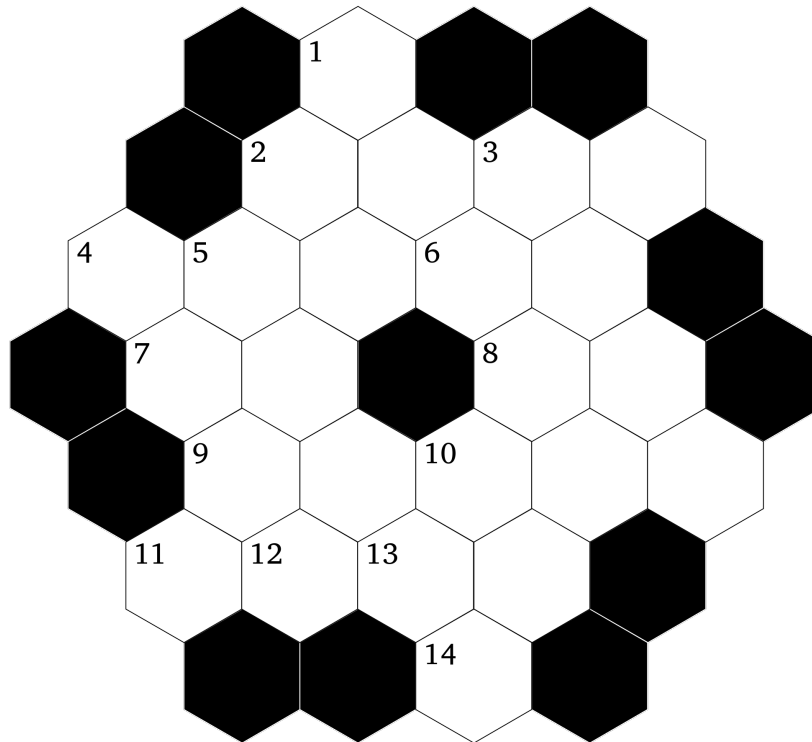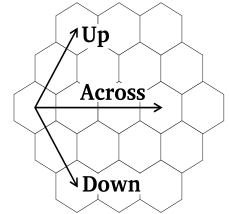# TripleCross - Intermediate Puzzle #82

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** Its digits total 2 down
**4** Seventeen times a square
**7** Four times a prime number
**8** Twice a square
**9** A prime number
**11** 1 down minus 11 up

**Up**

**6** 8 across minus 7 across
**7** Six times a prime number
**11** Four times a prime number
**12** Consecutive digits in descending order
**13** Mean of 4 across and 4 down
**14** Twice the result of 3 down minus 12 up

**Down**

**1** A prime number
**2** 12 up divided by five
**3** Three times a prime number
**4** One thousand three hundred ninety-five more than 3 down
**5** Six thousand eight hundred nine less than 4 across
**10** All digits are the same

**Solution:**