## Difficulty: $\bigstar \bigstar \bigstar \bigstar \bigstar$

# TripleCross - Hard Puzzle #7

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** Half of 61 up, then subtract 17 down
- **3** Mean of 29 up and 20 down
- 5 Mean of 35 up and 20 down
- **6** Twenty-one times a square
- **9** Mean of 26 down and 10 down
- 10 50 across plus 64 across
- **11** 54 down plus half of 55 across
- 12 26 down minus 9 across
- **14** Twice the result of 14 down minus 44 **24** 38 across minus 9 across up
- **16** Eight times a prime number
- **19** Forty-nine times a prime number
- 23 Mean of 31 up and 3 across
- 25 26 down minus 62 across
- **27** 39 up times 38 across
- 30 23 across minus 18 down
- 32 21 down plus 43 up
- **35** Five times a prime number
- 38 27 across divided by 39 down
- **40** 54 down plus 12 across
- 42 A prime number
- 45 Two thousand four hundred
- eighty-seven less than 44 down 48 54 across minus 60 across
- **50** 51 down plus 35 up
- **52** Twice 24 up
- 54 38 across plus 12 across
- 55 51 down minus 46 up
- **56** Fifty-five times a prime number

- **60** 10 across minus 54 down
- 62 18 down minus 14 across
- 64 46 up minus 48 across

- Up
- 9 Mean of 47 up and 12 across
- 10 39 down minus 11 across
- **13** Four times a prime number
- **17** Ninety-nine times a prime number 18 Forty-four times a prime number
- 20 28 up minus 39 down
- 22 Mean of 1 across and 57 down
- 23 Six times 49 up
- **26** 28 up plus 7 down
- 28 38 across minus 12 across
- 29 Mean of 10 up and 3 down
- **31** 44 up minus 10 down
- **33** 2 down plus 5 across
- **34** A cube
- **35** 4 down minus 10 down
- **39** 17 down plus 14 across
- 42 30 across minus 1 across
- 43 Mean of 23 across and 52 across
- **44** 50 across plus 62 across
- **46** 39 down plus 54 down
- 47 A square
- 49 25 across plus 4 down
- **52** Consecutive digits unordered
- **53** One thousand ten more than 9 down
- 59 Mean of 32 across and 22 up
- 61 7 down plus 28 up
- **62** 31 up times 10 up
- 63 Three thousand two hundred seventy-eight more than 19 across
- **65** Twice a prime number

### Down

- **2** 33 up minus 21 down
- **3** 7 down plus 42 up
- 4 Mean of 42 up and 57 down
- **5** Mean of 13 up and 53 down
- 7 20 down minus 35 down
- 8 Mean of 18 down and 7 down
- **9** Twice a prime number
- 10 Mean of 14 across and 58 down
- **14** 52 across plus 7 down
- **15** Forty-nine times a prime number
- **17** A square
- 18 Mean of 34 up and 17 down
- **20** 10 across minus 26 down
- 21 59 up minus 39 up
- **22** Mean of 53 up and 52 across
- 26 28 up plus 8 down
- **31** 10 down plus 51 down
- **33** 23 up times 34 up
- **35** 60 across minus 51 down
- **36** 19 across divided by 47 up
- **37** Mean of 46 up and 40 across
- **39** Mean of 24 up and 57 down
- **41** 62 up divided by 10 up
- 44 A prime number
- **46** A prime number
- 51 38 across minus 42 up
- **53** 54 across divided by three
- **54** 34 up minus 58 down
- 57 40 across minus 21 down
- 58 Twice the result of 5 across minus 35 down

