

# CrossFigure - Challenging Puzzle #9

This puzzle is like a crossword, but with numbers. Each digit occupies a square and can be a part of a "word" in the across and down directions.

**Rules:**

- "Words" may not start with a zero.
- "Words" read from left to right and top to bottom.
- There is one unique solution which satisfies all the clues given below.
- Some "words" may not have clues. They will be determined by the "words" which intersect them.

|    |    |    |  |  |    |    |    |
|----|----|----|--|--|----|----|----|
| 1  | 2  |    |  |  |    | 3  |    |
|    | 4  | 5  |  |  | 6  |    |    |
|    |    | 7  |  |  |    |    |    |
| 8  | 9  |    |  |  |    | 10 | 11 |
| 12 |    |    |  |  |    | 13 |    |
|    |    | 14 |  |  | 15 |    |    |
|    | 16 |    |  |  | 17 | 18 |    |
| 19 |    |    |  |  |    | 20 |    |

**Across**

- 1 8 down minus 16 across
- 3 15 down plus 20 across
- 4 A square
- 6 17 across reversed
- 7 Eighty-four times a prime number
- 8 12 across plus 13 across
- 10 Mean of 3 down and 8 across
- 12 19 across minus 20 across
- 13 Mean of 8 across and 18 down
- 14 Its digits total 20 across
- 16 A square
- 17 6 down plus 8 across
- 19 Twice the result of 18 down minus 14 down
- 20 10 down minus 8 across

**Down**

- 2 6 down plus 20 across
- 3 11 down plus 1 across
- 5 Mean of 6 down and 3 across
- 6 A square
- 8 6 down plus 1 across
- 9 Mean of 2 down and 17 across
- 10 19 across plus 13 across
- 11 7 across divided by 15 down
- 14 A square
- 15 12 across plus 5 down
- 16 10 down minus 13 across
- 18 14 across divided by forty-seven

**Solution:**

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 1 | 5 |   |   |   |   | 9 | 6 |
|   | 3 | 6 |   |   | 3 | 9 |   |
|   |   | 6 | 6 | 3 | 6 |   |   |
| 5 | 7 |   |   |   |   | 7 | 8 |
| 1 | 3 |   |   |   |   | 4 | 4 |
|   |   | 1 | 4 | 5 | 7 |   |   |
|   | 3 | 6 |   |   | 9 | 3 |   |
| 3 | 0 |   |   |   |   | 1 | 7 |