

## CrossFigure - Hard Puzzle # 19

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:**

1. "Words" may not start with a zero.
2. "Words" read from left to right and top to bottom.
3. There is one unique solution which satisfies all the clues given below.
4. 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 |    |    |    | 21 |    |
|    |    |    | 22 |    | 23 |    |    | 24 |    |    |    |
|    |    |    |    |    | 25 |    |    |    |    |    |    |
| 26 |    |    |    | 27 |    |    |    |    |    | 28 | 29 |
|    |    | 30 |    |    |    |    |    | 31 | 32 |    |    |
|    | 33 |    |    | 34 |    |    | 35 |    | 36 |    |    |
| 37 |    |    |    |    |    |    |    |    |    |    | 38 |
| 39 |    |    |    |    | 40 |    |    | 41 |    |    |    |

**Across**

- 1 Eight times a prime number
- 3 26 down minus 28 across
- 4 Half of 5 down, then subtract 7 down
- 9 A square
- 10 Mean of 39 across and 17 down
- 11 Sum of digits in 30 down
- 13 Half of 24 down, then subtract 9 across
- 14 33 across minus 36 across
- 16 8 down plus 9 across
- 18 34 across minus 14 across
- 21 34 down minus 11 across
- 23 Twice 12 down
- 25 Mean of 26 down and 16 across
- 26 31 across plus 1 down
- 27 21 across times 14 across
- 28 26 across minus 1 down
- 30 28 across minus 29 down
- 31 26 down minus 40 across
- 33 26 down plus 3 across
- 34 18 across plus 6 down
- 36 2 down minus 4 across
- 39 Twenty-nine times a prime number
- 40 30 across minus 11 across
- 41 1 across plus 37 down

**Down**

- 1 Three-fourths of 9 across
- 2 Mean of 20 down and 34 down
- 5 Thirty-four times a square
- 6 33 across minus 36 across
- 7 Mean of 1 down and 15 down
- 8 21 down divided by 22 down
- 12 A square
- 15 36 across minus 12 down
- 17 Five hundred ninety-five more than 27 across
- 19 Four times a prime number
- 20 Eight times a prime number
- 21 Three hundred eight more than 19 down
- 22 11 across plus 8 down
- 24 8 down minus 15 down
- 26 3 across plus 31 across
- 29 23 across minus 24 down
- 30 A prime number
- 32 Mean of 19 down and 16 across
- 34 30 across plus 36 across
- 35 Mean of 38 down and 40 across
- 37 Mean of 6 down and 8 down
- 38 12 down minus 15 down

**Solution:**

|   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 4 | 8 |   | 1 | 1 |   | 4 | 9 | 0 | 2 |
| 2 |   | 9 |   | 1 |   |   | 7 |   | 8 |   | 6 |
|   | 1 | 6 |   | 1 | 9 | 7 | 6 |   | 2 | 0 |   |
| 4 |   | 1 | 7 |   |   |   |   | 2 | 6 |   | 1 |
| 9 | 2 |   |   | 9 | 6 | 9 | 6 |   |   | 7 | 0 |
|   | 4 |   | 9 |   | 9 | 8 |   | 6 |   | 2 |   |
|   | 1 |   | 6 |   | 8 | 3 |   | 6 |   | 9 |   |
| 7 | 5 |   |   | 1 | 8 | 2 | 0 |   |   | 6 | 3 |
| 4 |   | 3 | 1 |   |   |   |   | 6 | 3 |   | 2 |
|   | 8 | 5 |   | 9 | 7 | 2 | 2 |   | 5 | 9 |   |
| 5 |   | 9 |   | 0 |   |   | 5 |   | 4 |   | 3 |
| 1 | 5 | 3 | 7 |   | 1 | 1 |   | 1 | 0 | 9 | 9 |