

# CrossFigure - Challenging Puzzle #43

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 |    |    | 21 |   |

### Across

- A square
- Mean of 18 down and 12 down
- 1 across minus 2 across
- 1 across minus 2 across
- Mean of 6 down and 2 down
- Same as 4 across
- 9 across divided by 19 across
- 16 across minus 9 down
- Twice a prime number
- 20 across plus 4 across
- 8 down divided by 21 across
- Seventeen times a prime number
- A square
- 14 across minus 6 across
- 9 across divided by forty-two

### Down

- 7 across minus 9 down
- 19 across minus 9 down
- Three hundred forty-eight more than 16 across
- One thousand two hundred fifty-two more than 13 across
- 10 down minus 19 across
- 15 across minus 3 down
- Mean of 4 across and 3 down
- 16 across minus half of 13 across
- A prime number
- Mean of 11 down and 10 down

**Solution:**

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