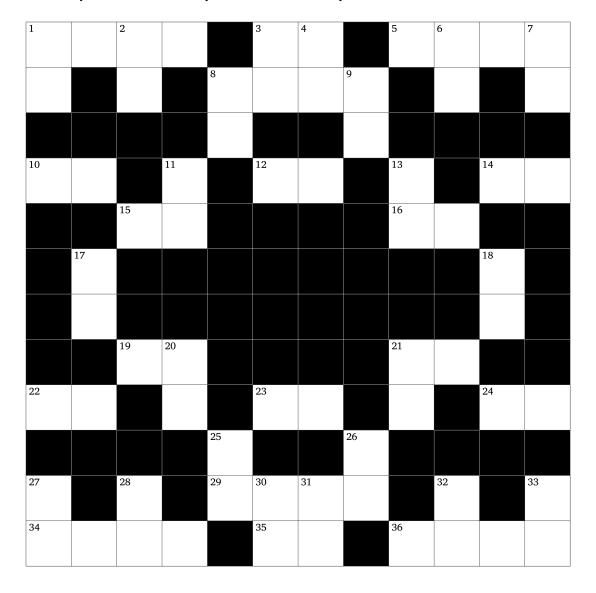# CrossFigure - Challenging Puzzle #30

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.

## Across

**1** Mean of 36 across and 1 down
**3** 25 down minus 4 down
**5** 20 down times 17 down
**8** A prime number
**10** Half of 13 down, then subtract 9 down
**12** 30 down plus 18 down
**14** 9 down plus 7 down
**15** 23 across plus 20 down
**16** 9 down plus 23 across
**19** Mean of 6 down and 4 down
**21** Half of 27 down, then subtract 23 across
**22** Twice the result of 32 down minus 14 across
**23** Mean of 9 down and 33 down
**24** Twice the result of 33 down plus 11 down
**29** Sixty-three times a prime number
**34** Mean of 29 across and 8 across
**35** Mean of 4 down and 25 down
**36** Forty-six times 31 down

## Down

**1** 27 down minus 4 down
**2** Mean of 19 across and 21 down
**3** 25 down minus 22 across
**4** 19 across minus 1 down
**6** 9 down plus 25 down
**7** 6 down minus 8 down
**8** 1 down plus 10 across
**9** 12 across minus 8 down
**11** 30 down plus 33 down
**13** 20 down plus 3 across
**17** Mean of 33 down and 25 down
**18** 24 across minus 20 down
**20** Mean of 4 down and 35 across
**21** Mean of 8 down and 26 down
**25** 31 down plus 21 down
**26** 28 down minus 3 down
**27** Mean of 13 down and 35 across
**28** 2 down minus 10 across
**30** A cube
**31** Mean of 15 across and 16 across
**32** 31 down plus 8 down
**33** Same as 3 down

**Solution:**

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