# Kakuro Combinations

These totals can be made with only one set of digits.

## 2 squares

**3** 1 2

**4** 1 3

**16** 7 9

**17** 8 9

## 3 squares

**6** 1 2 3

**7** 1 2 4

**23** 6 8 9

**24** 7 8 9

## 4 squares

**10** 1 2 3 4

**11** 1 2 3 5

**29** 5 7 8 9

**30** 6 7 8 9

## 5 squares

**15** 1 2 3 4 5

**16** 1 2 3 4 6

**34** 4 6 7 8 9

**35** 5 6 7 8 9

## 6 squares

**21** 1 2 3 4 5 6

**22** 1 2 3 4 5 7

**38** 3 5 6 7 8 9

**39** 4 5 6 7 8 9

## 7 squares

**28** 1 2 3 4 5 6 7

**29** 1 2 3 4 5 6 8

**41** 2 4 5 6 7 8 9

**42** 3 4 5 6 7 8 9

## 8 squares

**36** 1 2 3 4 5 6 7 8

**37** 1 2 3 4 5 6 7 9

**38** 1 2 3 4 5 6 8 9

**39** 1 2 3 4 5 7 8 9

**40** 1 2 3 4 6 7 8 9

**41** 1 2 3 5 6 7 8 9

**42** 1 2 4 5 6 7 8 9

**43** 1 3 4 5 6 7 8 9

**44** 2 3 4 5 6 7 8 9

## 9 squares

**45** 1 2 3 4 5 6 7 8 9

# Every Combination for 2 and 3 Squares

Each set lists digits that add up to the total, smallest first.

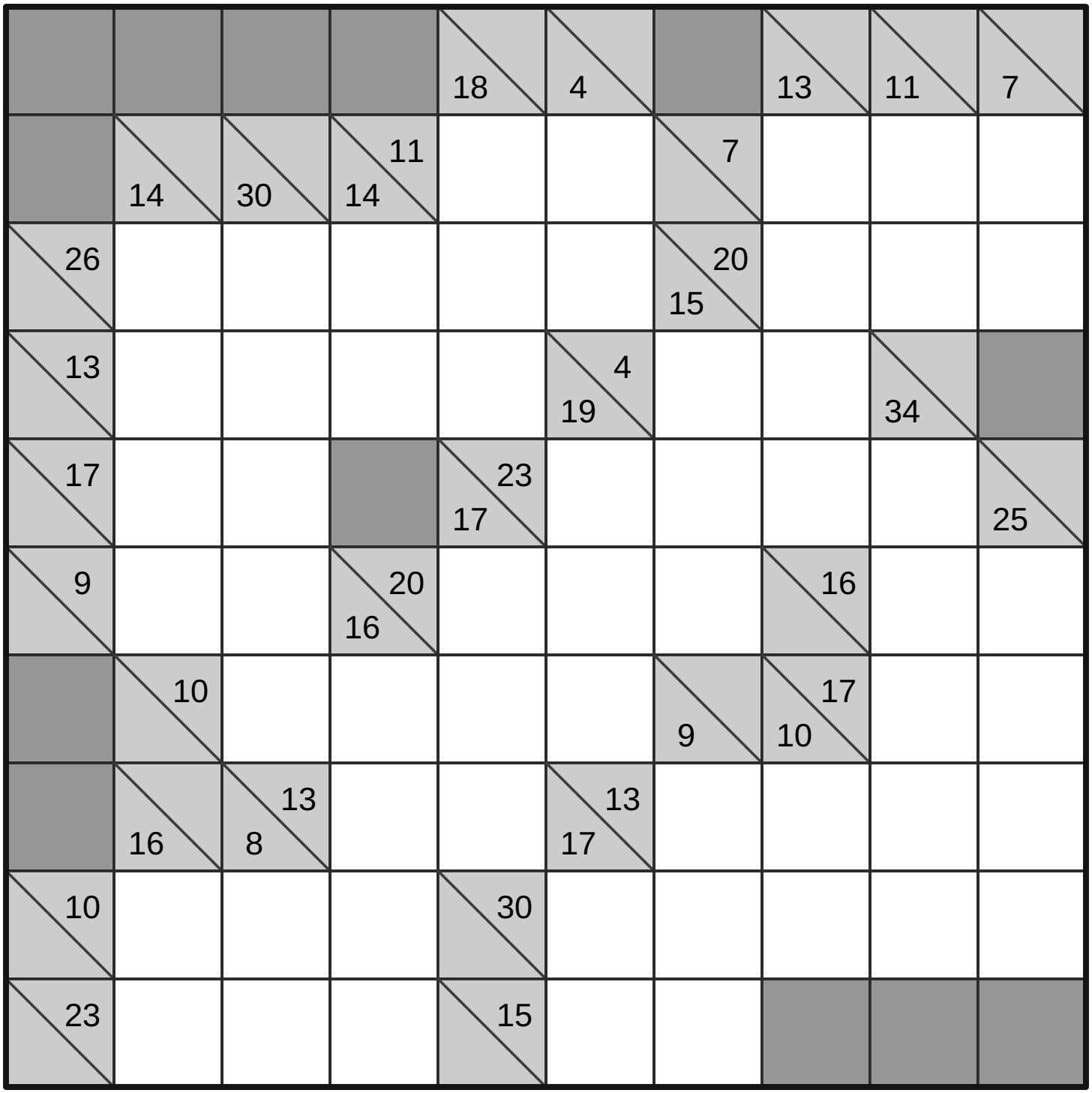
## 2 squares

| | |
|---|---|
| **3** | 12 |
| **4** | 13 |
| **5** | 23 14 |
| **6** | 24 15 |
| **7** | 34 25 16 |
| **8** | 35 26 17 |
| **9** | 45 36 27 18 |
| **10** | 46 37 28 19 |
| **11** | 56 47 38 29 |
| **12** | 57 48 39 |
| **13** | 67 58 49 |
| **14** | 68 59 |
| **15** | 78 69 |
| **16** | 79 |
| **17** | 89 |

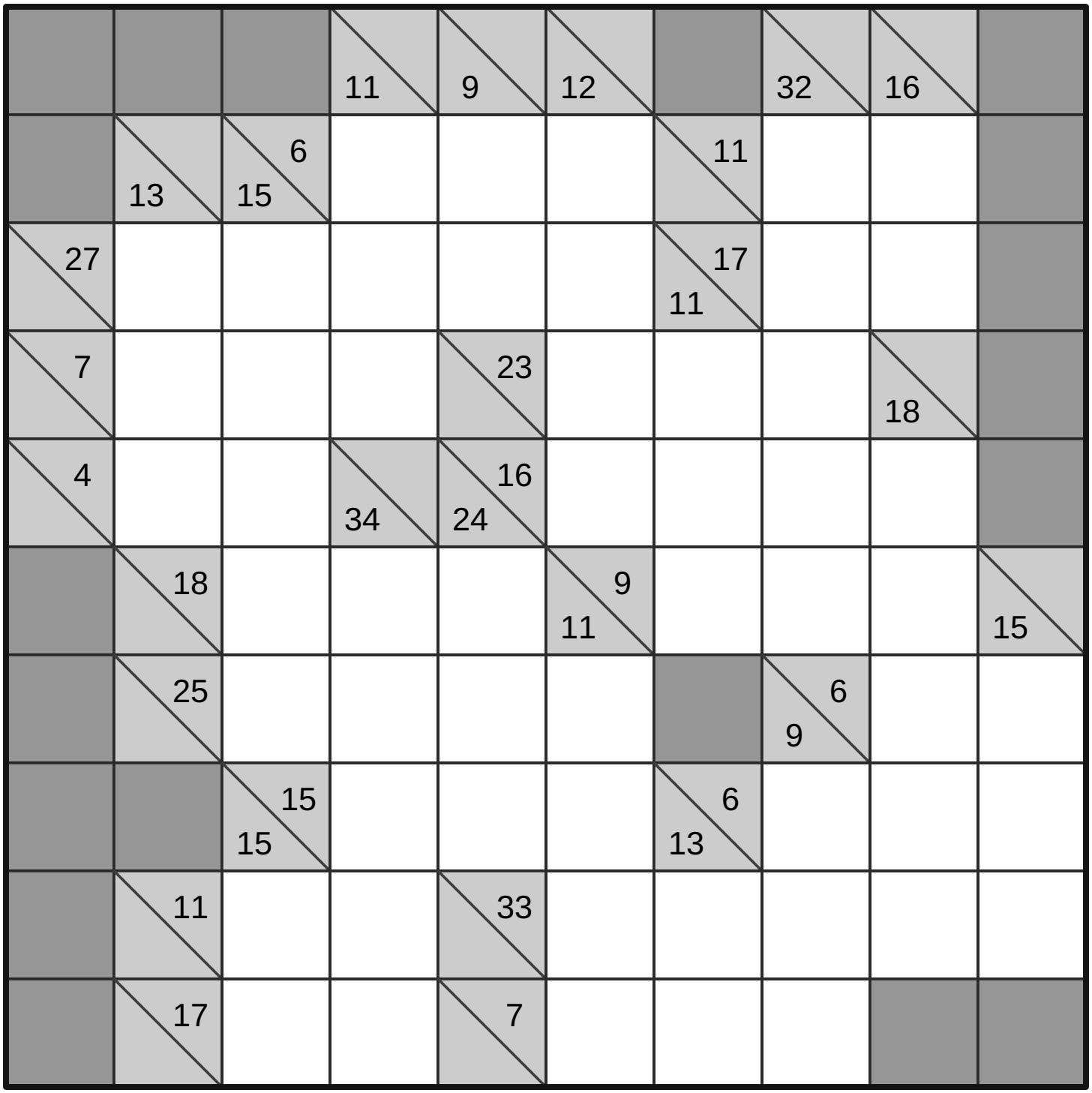
## 3 squares

| | |
|---|---|
| **6** | 123 |
| **7** | 124 |
| **8** | 134 125 |
| **9** | 234 135 126 |
| **10** | 235 145 136 127 |
| **11** | 245 236 146 137 128 |
| **12** | 345 246 156 237 147 138 129 |
| **13** | 346 256 247 157 238 148 139 |
| **14** | 356 347 257 167 248 158 239 149 |
| **15** | 456 357 267 348 258 168 249 159 |
| **16** | 457 367 358 268 178 349 259 169 |
| **17** | 467 458 368 278 359 269 179 |
| **18** | 567 468 378 459 369 279 189 |
| **19** | 568 478 469 379 289 |
| **20** | 578 569 479 389 |
| **21** | 678 579 489 |
| **22** | 679 589 |
| **23** | 689 |
| **24** | 789 |

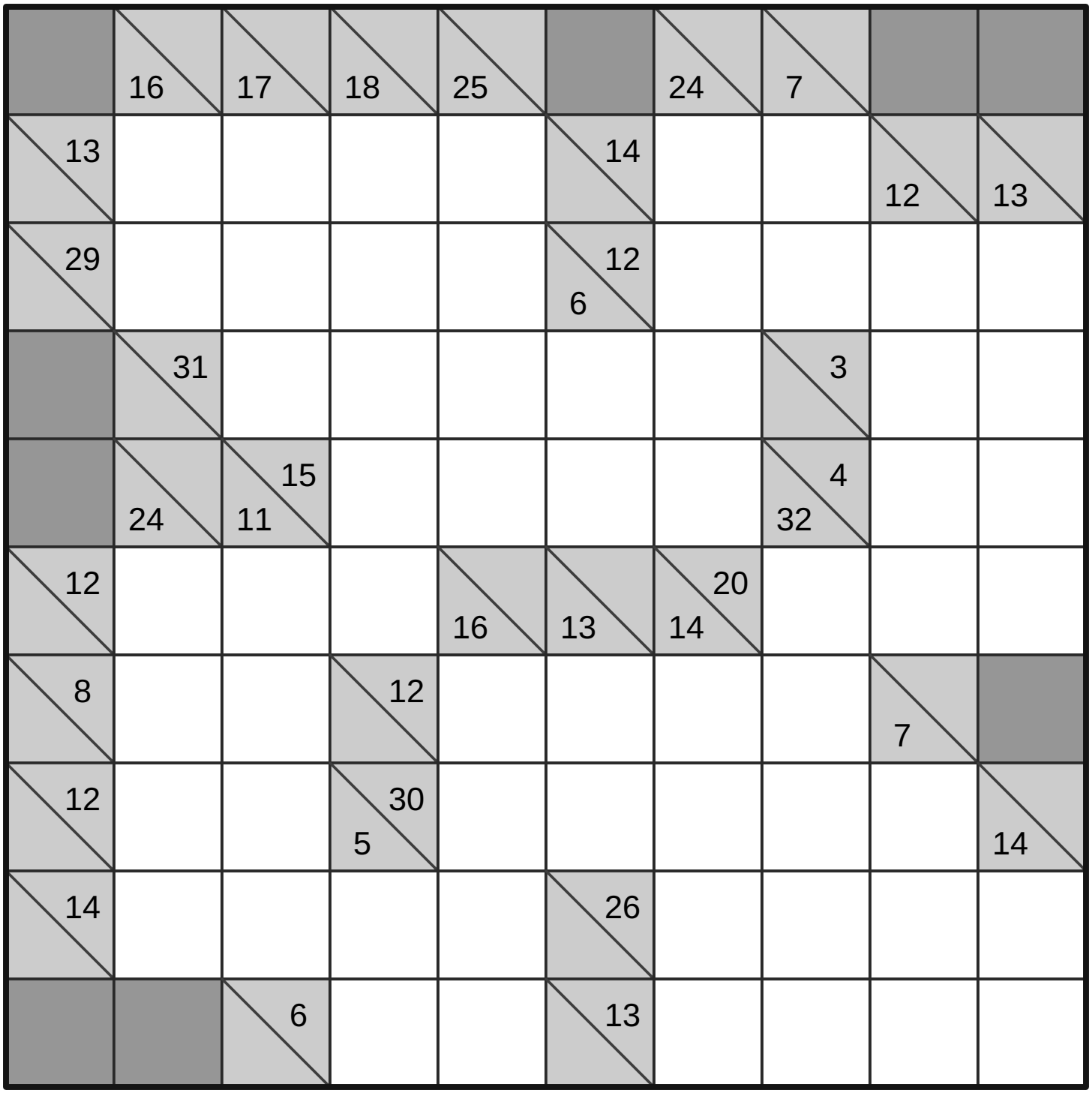
# HARD KAKURO 1



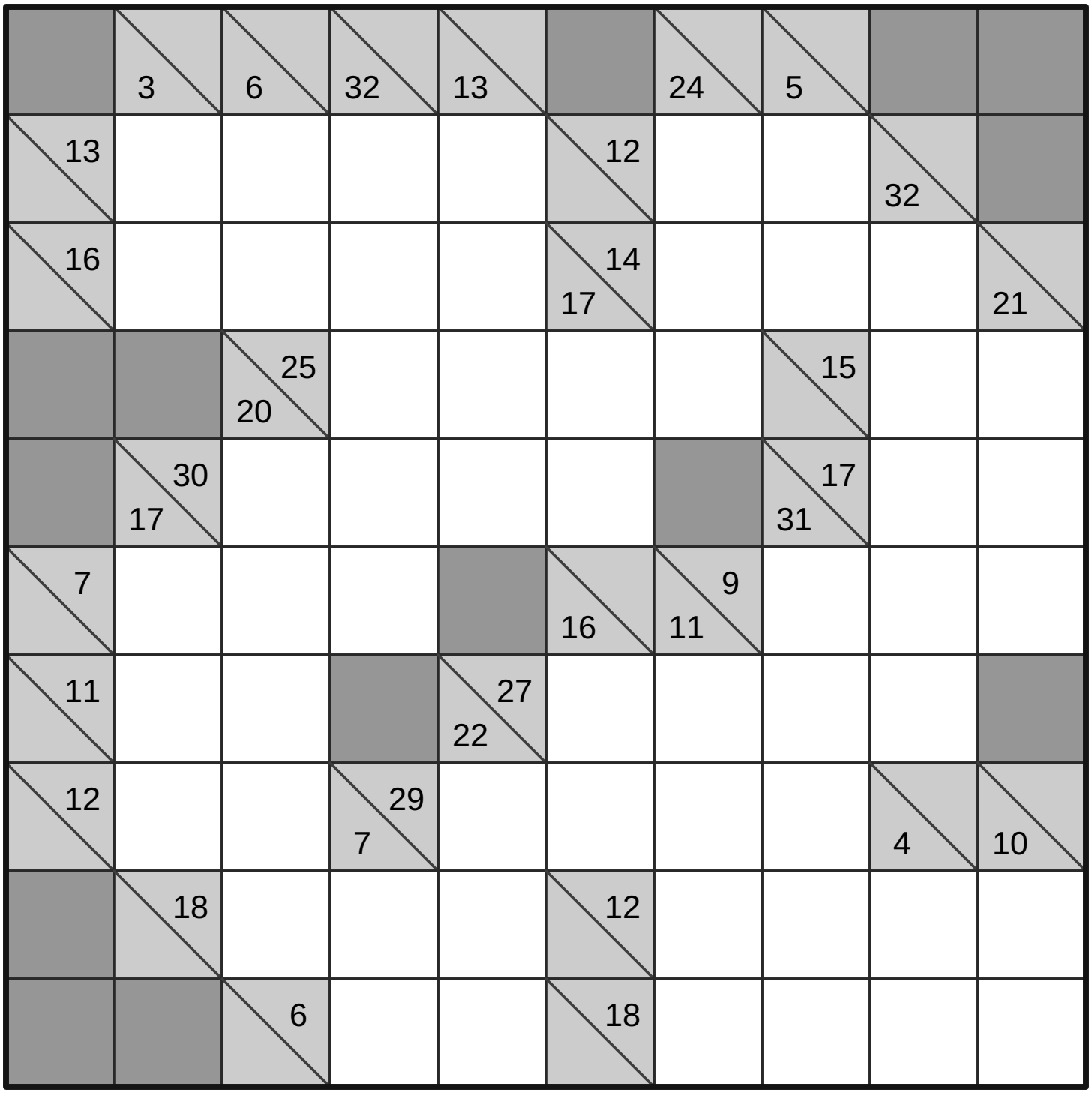
# HARD KAKURO 2



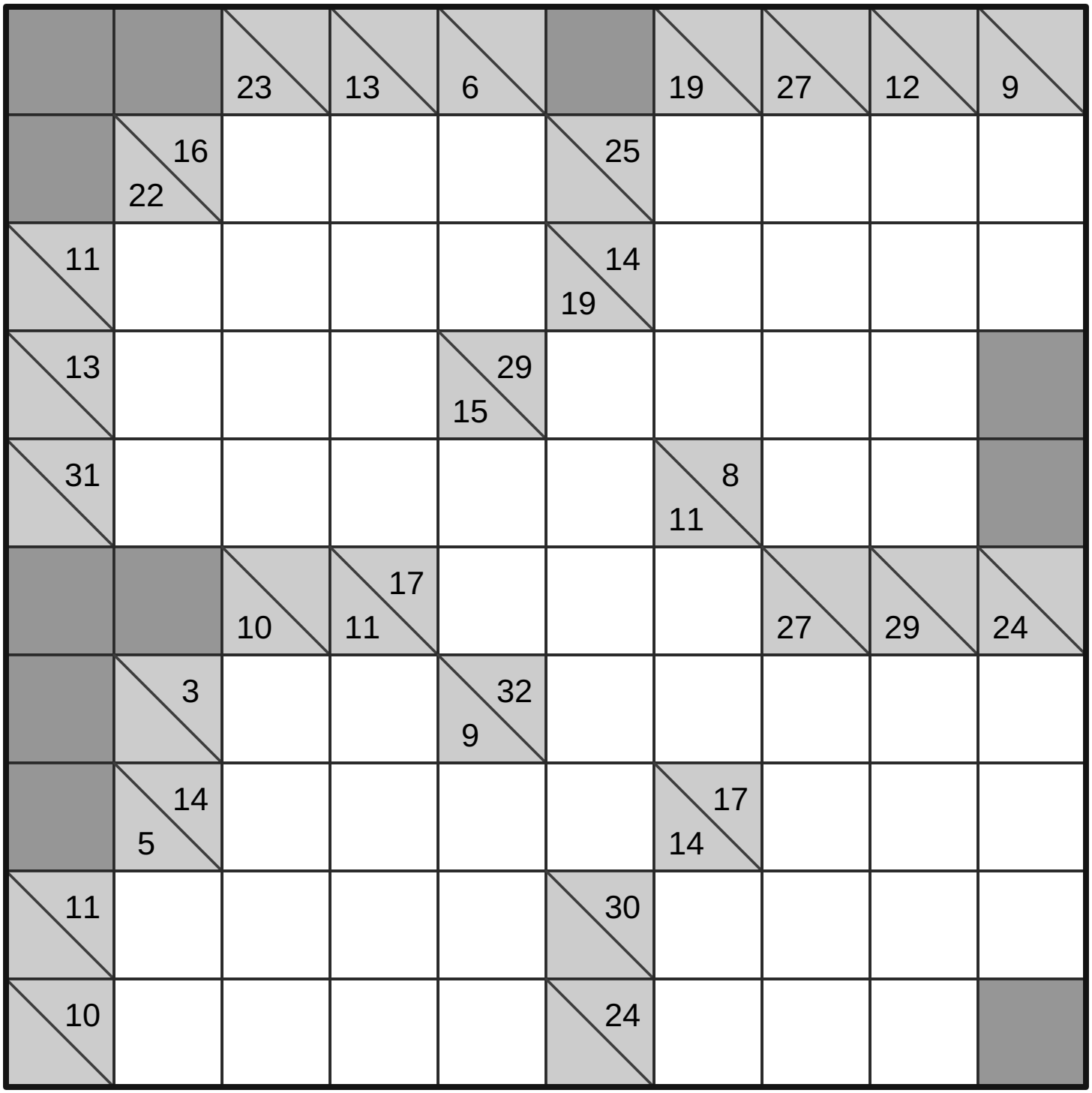
# HARD KAKURO 3



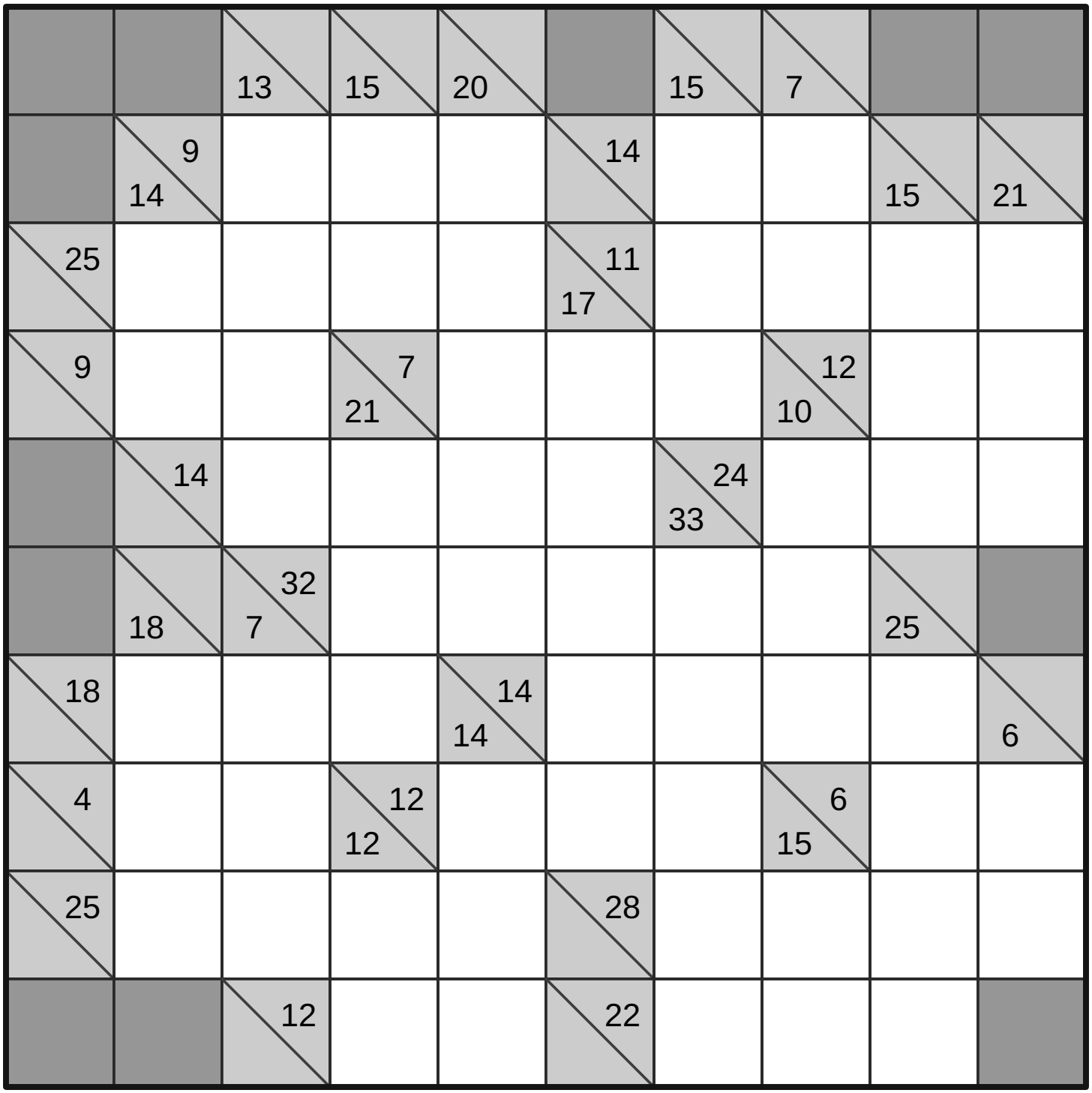
# HARD KAKURO 4



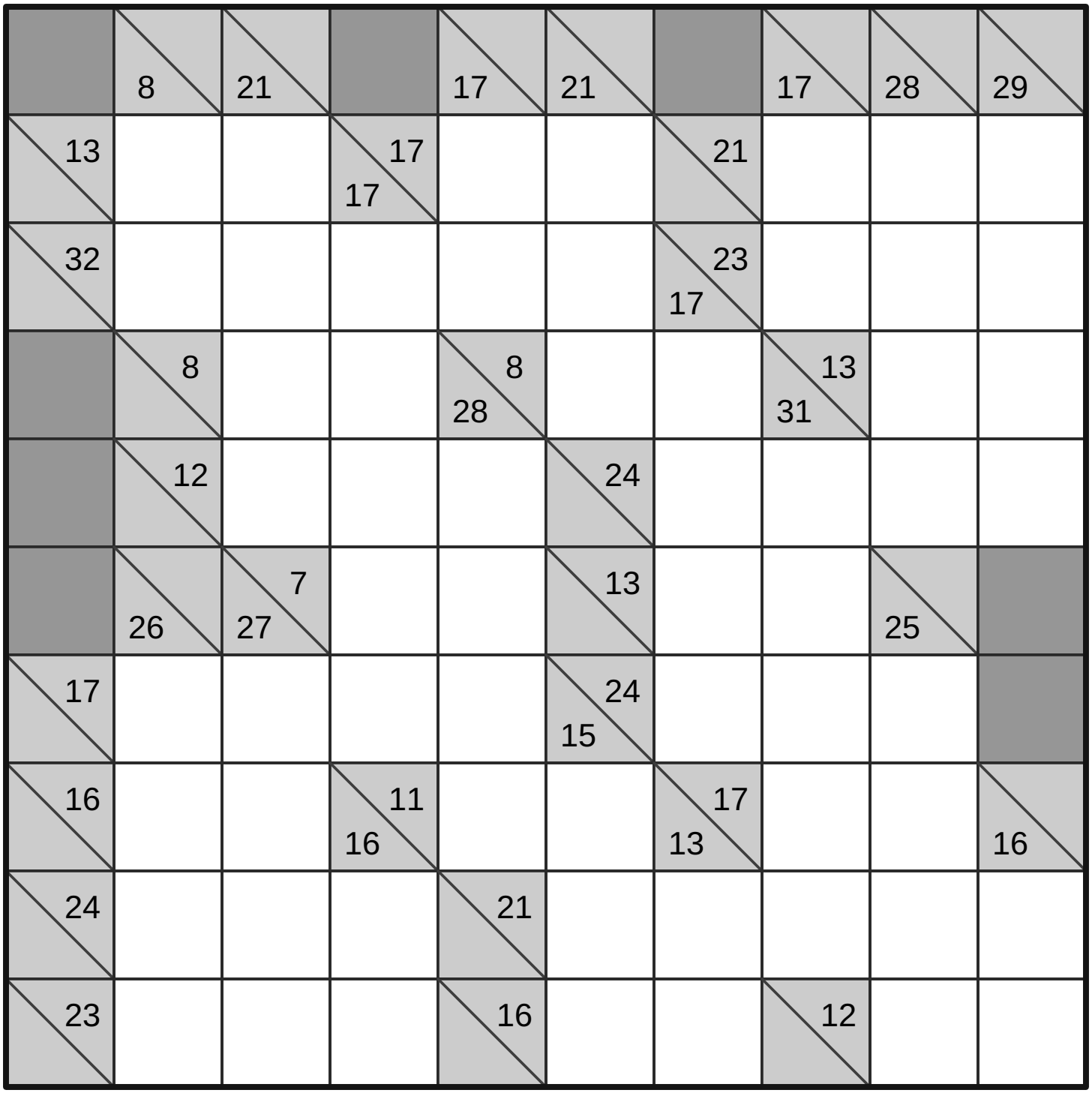
# HARD KAKURO 5



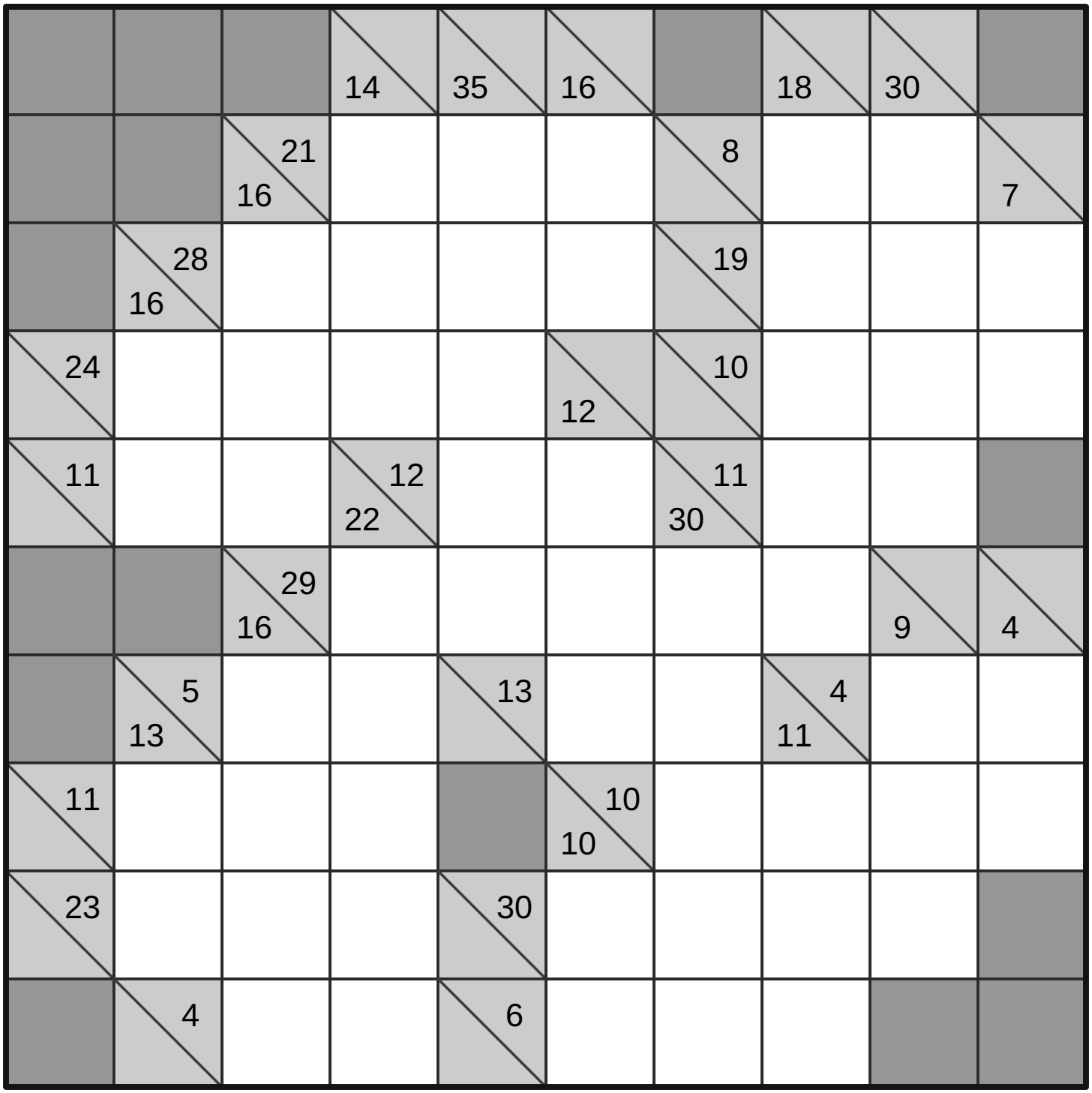
# HARD KAKURO 6



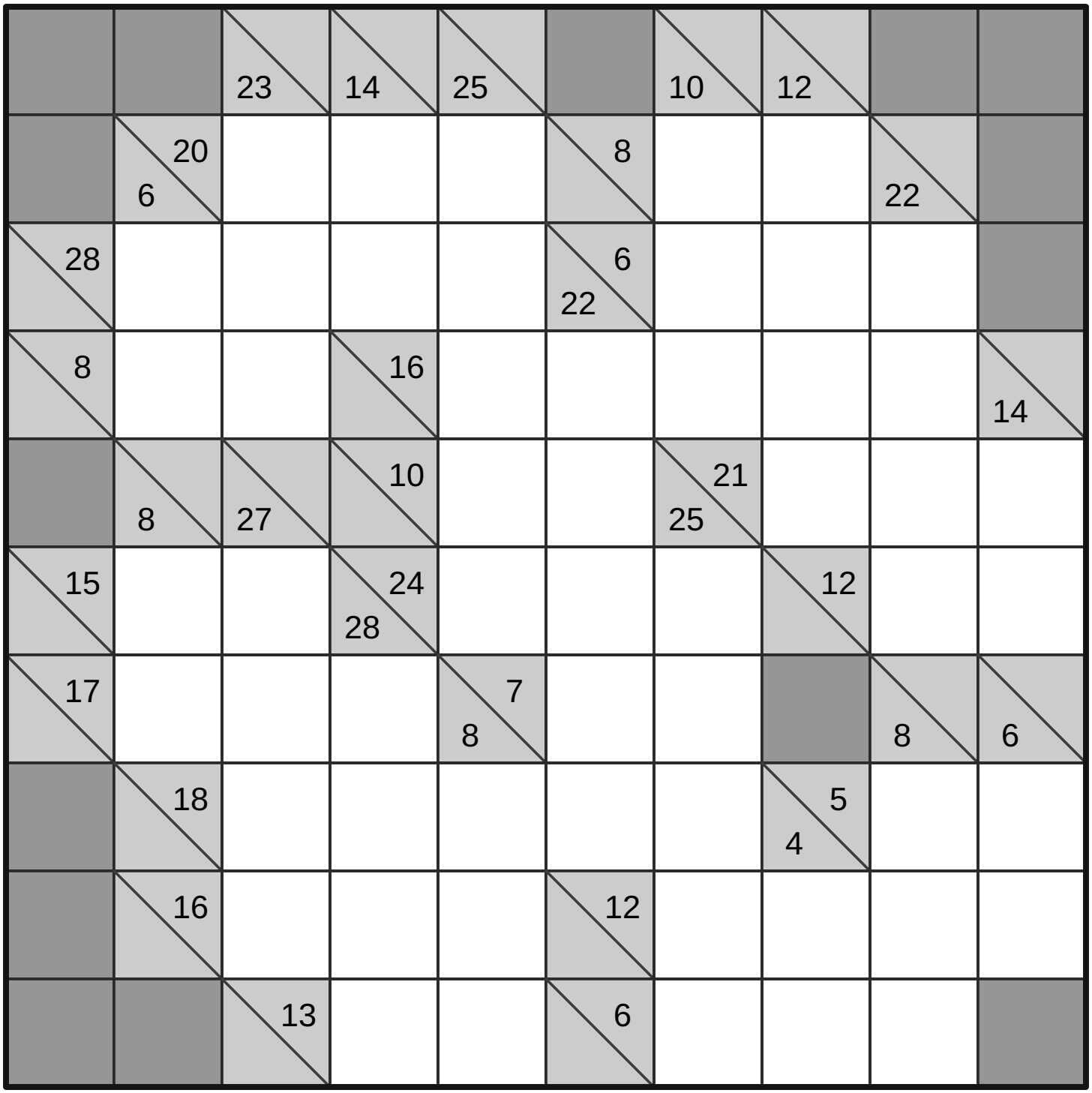
# HARD KAKURO 7



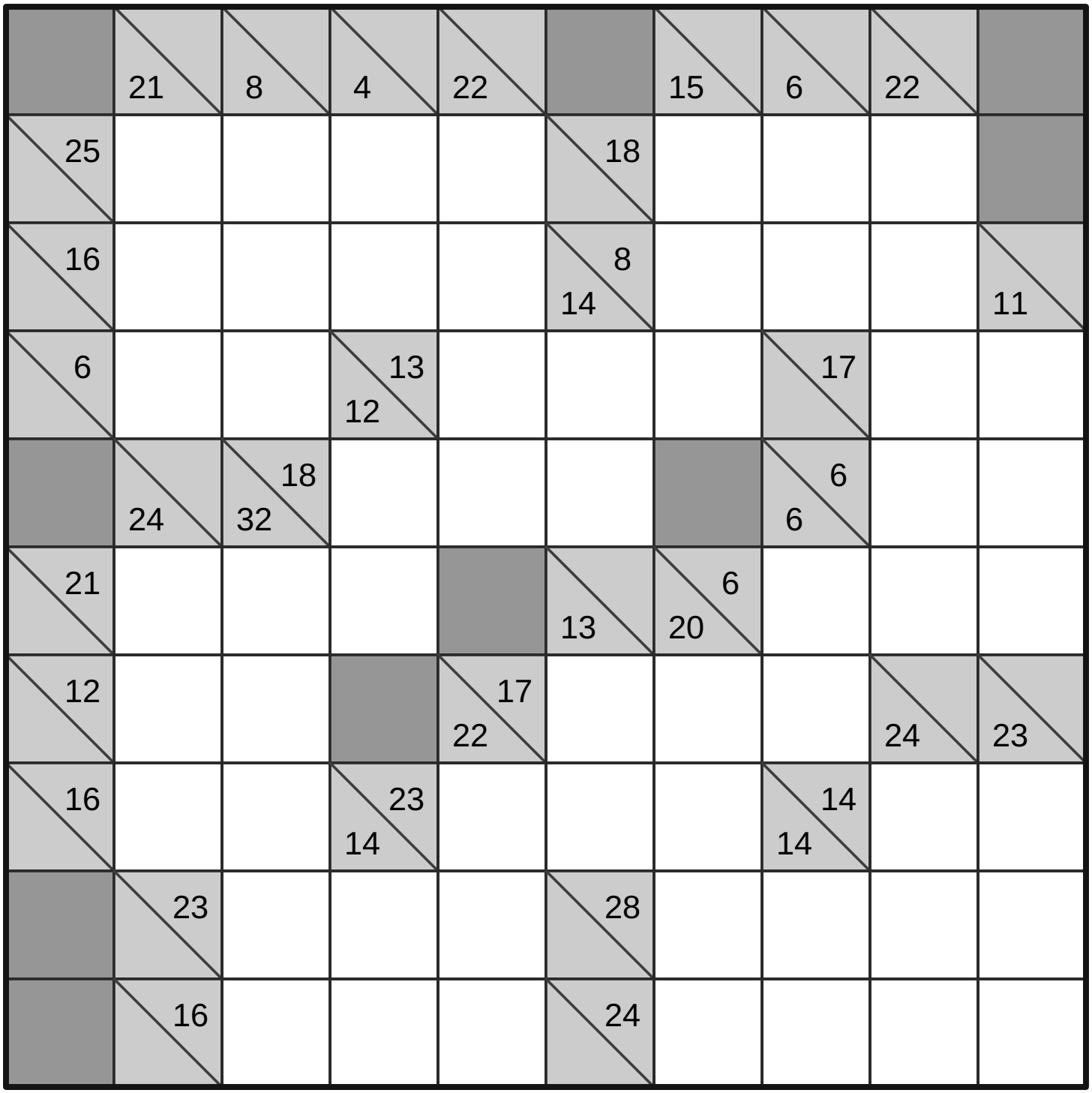
# HARD KAKURO 8



# HARD KAKURO 9



# HARD KAKURO 10



# ANSWERS

## HARD KAKURO 1

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 18 | 4 | | 13 | 11 | 7 |
| | 14 | 30 | 14 11 | 8 | 3 | 7 | 4 | 2 | 1 |
| 26 | 2 | 8 | 9 | 6 | 1 | 15 20 | 5 | 9 | 6 |
| 13 | 1 | 3 | 5 | 4 | 19 4 | 3 | 1 | 34 | |
| 17 | 8 | 9 | | 17 23 | 9 | 7 | 3 | 4 | 25 |
| 9 | 3 | 6 | 16 20 | 7 | 8 | 5 | 16 | 9 | 7 |
| | 10 | 4 | 3 | 1 | 2 | 9 | 10 17 | 8 | 9 |
| | 16 | 8 13 | 4 | 9 | 17 13 | 2 | 1 | 6 | 4 |
| 10 | 7 | 2 | 1 | 30 | 8 | 1 | 9 | 7 | 5 |
| 23 | 9 | 6 | 8 | 15 | 9 | 6 | | | |

## HARD KAKURO 2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 11 | 9 | 12 | | 32 | 16 | |
| | 13 | 15 6 | 3 | 1 | 2 | 11 | 4 | 7 | |
| 27 | 6 | 5 | 7 | 8 | 1 | 11 17 | 8 | 9 | |
| 7 | 4 | 2 | 1 | 23 | 6 | 8 | 9 | 18 | |
| 4 | 3 | 1 | 34 | 24 16 | 3 | 2 | 6 | 5 | |
| | 18 | 3 | 8 | 7 | 11 9 | 1 | 5 | 3 | 15 |
| | 25 | 4 | 7 | 9 | 5 | | 9 6 | 2 | 4 |
| | | 15 15 | 6 | 8 | 1 | 13 6 | 2 | 1 | 3 |
| | 11 | 7 | 4 | 33 | 3 | 9 | 6 | 7 | 8 |
| | 17 | 8 | 9 | 7 | 2 | 4 | 1 | | |

## HARD KAKURO 3

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 16 | 17 | 18 | 25 | | 24 | 7 | | |
| 13 | 7 | 2 | 1 | 3 | 14 | 8 | 6 | 12 | 13 |
| 29 | 9 | 8 | 5 | 7 | 6 12 | 4 | 1 | 5 | 2 |
| | 31 | 7 | 4 | 6 | 5 | 9 | 3 | 2 | 1 |
| | 24 | 11 15 | 2 | 9 | 1 | 3 | 32 4 | 1 | 3 |
| 12 | 5 | 1 | 6 | 16 | 13 | 14 20 | 9 | 4 | 7 |
| 8 | 3 | 5 | 12 | 2 | 4 | 1 | 5 | 7 | |
| 12 | 9 | 3 | 5 30 | 8 | 9 | 2 | 7 | 4 | 14 |
| 14 | 7 | 2 | 4 | 1 | 26 | 7 | 8 | 2 | 9 |
| | | 6 | 1 | 5 | 13 | 4 | 3 | 1 | 5 |

## HARD KAKURO 4

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 3 | 6 | 32 | 13 | | 24 | 5 | | |
| 13 | 1 | 2 | 7 | 3 | 12 | 8 | 4 | 32 | |
| 16 | 2 | 4 | 9 | 1 | 17 14 | 7 | 1 | 6 | 21 |
| | | 20 25 | 6 | 2 | 8 | 9 | 15 | 8 | 7 |
| | 17 30 | 6 | 8 | 7 | 9 | | 31 17 | 9 | 8 |
| 7 | 1 | 4 | 2 | | 16 | 11 9 | 1 | 2 | 6 |
| 11 | 9 | 2 | | 22 27 | 9 | 3 | 8 | 7 | |
| 12 | 7 | 5 | 7 29 | 8 | 7 | 5 | 9 | 4 | 10 |
| | 18 | 3 | 6 | 9 | 12 | 1 | 6 | 3 | 2 |
| | | 6 | 1 | 5 | 18 | 2 | 7 | 1 | 8 |

# ANSWERS

## HARD KAKURO 5

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 23 | 13 | 6 | | 19 | 27 | 12 | 9 |
| | 16 / 22 | 9 | 2 | 5 | 25 | 5 | 9 | 4 | 7 |
| 11 | 5 | 2 | 3 | 1 | 14 / 19 | 6 | 5 | 1 | 2 |
| 13 | 8 | 4 | 1 | 29 / 15 | 9 | 8 | 7 | 5 | |
| 31 | 9 | 8 | 7 | 6 | 1 | 8 / 11 | 6 | 2 | |
| | | 10 | 17 / 11 | 9 | 2 | 6 | 27 | 29 | 24 |
| | 3 | 1 | 2 | 32 / 9 | 4 | 5 | 6 | 8 | 9 |
| | 14 / 5 | 4 | 1 | 6 | 3 | 17 / 14 | 4 | 5 | 8 |
| 11 | 1 | 3 | 5 | 2 | 30 | 6 | 8 | 9 | 7 |
| 10 | 4 | 2 | 3 | 1 | 24 | 8 | 9 | 7 | |

## HARD KAKURO 6

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 13 | 15 | 20 | | 15 | 7 | | |
| | 9 / 14 | 2 | 6 | 1 | 14 | 8 | 6 | 15 | 21 |
| 25 | 6 | 7 | 9 | 3 | 11 / 17 | 3 | 1 | 2 | 5 |
| 9 | 8 | 1 | 7 / 21 | 2 | 1 | 4 | 12 / 10 | 5 | 7 |
| | 14 | 3 | 4 | 5 | 2 | 24 / 33 | 7 | 8 | 9 |
| | 18 | 32 / 7 | 8 | 9 | 7 | 6 | 2 | 25 | |
| 18 | 7 | 2 | 9 | 14 / 14 | 4 | 3 | 1 | 6 | 6 |
| 4 | 3 | 1 | 12 / 12 | 1 | 3 | 8 | 6 / 15 | 4 | 2 |
| 25 | 8 | 4 | 7 | 6 | 28 | 7 | 9 | 8 | 4 |
| | | 12 | 5 | 7 | 22 | 9 | 6 | 7 | |

## HARD KAKURO 7

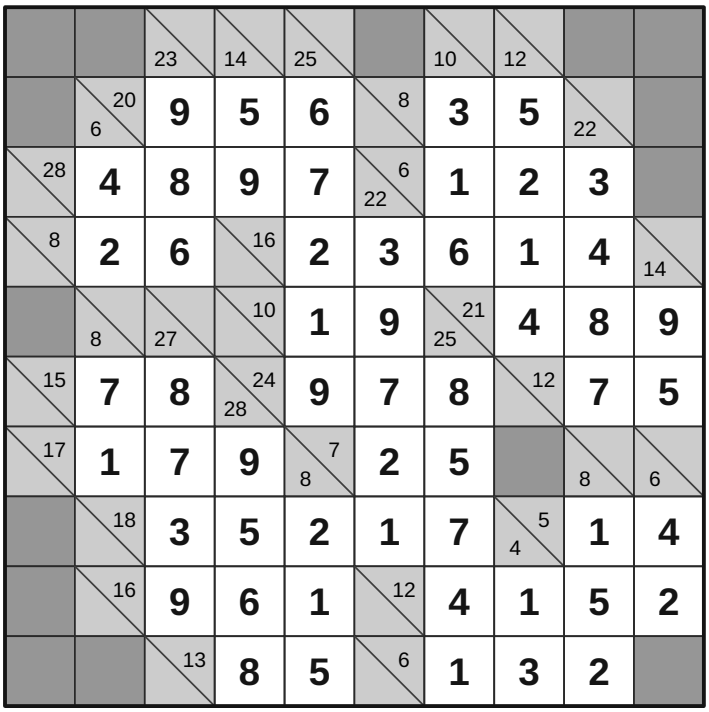
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 8 | 21 | | 17 | 21 | | 17 | 28 | 29 |
| 13 | 6 | 7 | 17 / 17 | 9 | 8 | 21 | 9 | 5 | 7 |
| 32 | 2 | 9 | 6 | 8 | 7 | 23 / 17 | 8 | 6 | 9 |
| | 8 | 3 | 5 | 8 / 28 | 6 | 2 | 13 / 31 | 8 | 5 |
| | 12 | 2 | 1 | 9 | 24 | 1 | 6 | 9 | 8 |
| | 26 | 7 / 27 | 2 | 5 | 13 | 6 | 7 | 25 | |
| 17 | 2 | 4 | 3 | 8 | 24 / 15 | 8 | 9 | 7 | |
| 16 | 7 | 9 | 11 / 16 | 6 | 5 | 17 / 13 | 8 | 9 | 16 |
| 24 | 9 | 8 | 7 | 21 | 3 | 4 | 1 | 6 | 7 |
| 23 | 8 | 6 | 9 | 16 | 7 | 9 | 12 | 3 | 9 |

## HARD KAKURO 8

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | 35 | 16 | | 18 | 30 | |
| | | 21 / 16 | 8 | 6 | 7 | 8 | 1 | 7 | 7 |
| | 28 / 16 | 8 | 4 | 7 | 9 | 19 | 5 | 8 | 6 |
| 24 | 7 | 6 | 2 | 9 | 12 | 10 | 3 | 6 | 1 |
| 11 | 9 | 2 | 12 / 22 | 8 | 4 | 11 / 30 | 2 | 9 | |
| | | 29 / 16 | 8 | 5 | 3 | 6 | 7 | 9 | 4 |
| | 5 / 13 | 4 | 1 | 13 | 5 | 8 | 4 / 11 | 1 | 3 |
| 11 | 5 | 2 | 4 | | 10 / 10 | 4 | 3 | 2 | 1 |
| 23 | 8 | 9 | 6 | 30 | 8 | 9 | 7 | 6 | |
| | 4 | 1 | 3 | 6 | 2 | 3 | 1 | | |

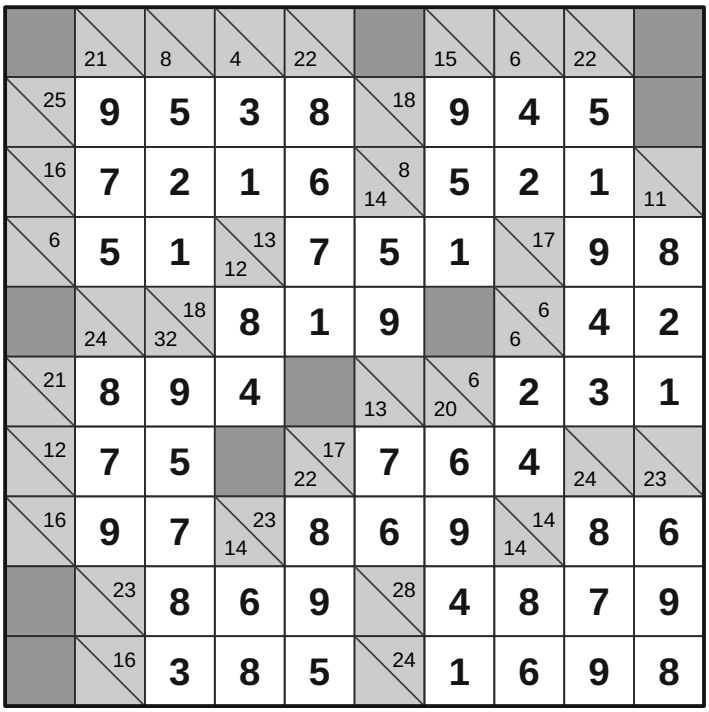
# ANSWERS

## HARD KAKURO 9



| | | 23 | 14 | 25 | | 10 | 12 | | |
|---|---|---|---|---|---|---|---|---|---|
| | 20 6 | 9 | 5 | 6 | 8 | 3 | 5 | 22 | |
| 28 | 4 | 8 | 9 | 7 | 6 22 | 1 | 2 | 3 | |
| 8 | 2 | 6 | 16 | 2 | 3 | 6 | 1 | 4 | 14 |
| | 8 | 27 | 10 | 1 | 9 | 21 25 | 4 | 8 | 9 |
| 15 | 7 | 8 | 24 28 | 9 | 7 | 8 | 12 | 7 | 5 |
| 17 | 1 | 7 | 9 | 7 8 | 2 | 5 | | 8 | 6 |
| | 18 | 3 | 5 | 2 | 1 | 7 | 5 4 | 1 | 4 |
| | 16 | 9 | 6 | 1 | 12 | 4 | 1 | 5 | 2 |
| | | 13 | 8 | 5 | 6 | 1 | 3 | 2 | |

## HARD KAKURO 10



| | 21 | 8 | 4 | 22 | | 15 | 6 | 22 | |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 9 | 5 | 3 | 8 | 18 | 9 | 4 | 5 | |
| 16 | 7 | 2 | 1 | 6 | 8 14 | 5 | 2 | 1 | 11 |
| 6 | 5 | 1 | 13 12 | 7 | 5 | 1 | 17 | 9 | 8 |
| | 24 | 18 32 | 8 | 1 | 9 | | 6 6 | 4 | 2 |
| 21 | 8 | 9 | 4 | | 13 | 6 20 | 2 | 3 | 1 |
| 12 | 7 | 5 | | 17 22 | 7 | 6 | 4 | 24 | 23 |
| 16 | 9 | 7 | 23 14 | 8 | 6 | 9 | 14 14 | 8 | 6 |
| | 23 | 8 | 6 | 9 | 28 | 4 | 8 | 7 | 9 |
| | 16 | 3 | 8 | 5 | 24 | 1 | 6 | 9 | 8 |