

PUZZLEBOMB

$118^2 + m^2 = 138^2 + k^2$
where $100 < m < 200$

$11000a + 100b + 11c$
 $a, b, c < 10$

4-digit palindrome followed by a square that divides it

NUMBER CARP

NUMBER CARP:
by @stecks & @apaultaylor

Multiple of 21569

Multiple of 4339

Multiple of 6323

Product of two primes < 250

Multiple of 30649

Divides $46^3 - 1$

$155^2 + n^2$

Prime multiple of 251

Prime

Multiple of 30979

First 5 digits after decimal point in π with one digit moved

Multiple of 2^8

Multiple of 11

Solve the clues to fill the grid with numbers. All entries are different, run left-to-right or top-to-bottom and none begins with a zero.

To fill the final square, you must notice that the grid can be divided into nine pieces, each containing two three-digit numbers, which have a shared property (one not as common as was previously thought).

APIS CLUES

Here are five cryptic crossword clues. You must solve the clues, then find the connection between the answers.

1. Rock Me Amadeus first gets in with regular rebel (6)
2. Bighead beast in crate (3)
3. Four clapped in iron, or one more (4)
4. The art's full of spirit (5)
5. Pull doctor to get anything (7)

APIS CLUES: devised by @apisclues.