

2.9 Metapuzzle: Residues

In this round, every answer is a number. Taking each of these numbers mod the first 5 primes (2,3,5,7,11) always yields either a 0 or a 1; this gives a 5-bit string which can be read as a binary number to determine a letter (with A=1, B=2, etc.).

The answers and their residues mod 2, 3, 5, 7, and 11 are:

- 616 \rightarrow 01100 \rightarrow L
- 210 \rightarrow 00001 \rightarrow A
- 441 \rightarrow 10101 \rightarrow U
- 946 \rightarrow 01110 \rightarrow N
- 540 \rightarrow 00011 \rightarrow C
- 1540 \rightarrow 01000 \rightarrow H
- 1596 \rightarrow 00101 \rightarrow E
- 1485 \rightarrow 10010 \rightarrow R

Reading these letters yields the answer: LAUNCHER