

Amritanilayam Stotras

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A 10x10 grid of 100 squares, each containing a number from 1 to 10. The numbers are arranged in a pattern that resembles a multiplication table, with the numbers 1 through 10 appearing in the first row and the numbers 10 through 100 appearing in the subsequent rows.

The diagram illustrates the iterative steps of the Euclidean algorithm for finding the GCD of 100 and 35. The process is shown as a sequence of 10 rows, each representing a step. Each row contains a grid of squares representing the current numbers and their quotients and remainders. The steps are labeled 1 through 5, showing the progression from 100 and 35 down to the GCD of 5.

Step 1: 100 (10x10 grid) and 35 (7x5 grid). 100 divided by 35 gives a quotient of 2 and a remainder of 30 (6x5 grid).

Step 2: 35 (7x5 grid) and 30 (6x5 grid). 35 divided by 30 gives a quotient of 1 and a remainder of 5 (1x5 grid).

Step 3: 30 (6x5 grid) and 5 (1x5 grid). 30 divided by 5 gives a quotient of 6 and a remainder of 0.

Step 4: 5 (1x5 grid) and 0 (0x5 grid). The remainder is 0, so the GCD is 5.

Step 5: The final result is 5 (1x5 grid).



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