

Prime Recognition

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Teacher
Basic to Advanced classes

To find whether a given number (x) is a prime or composite in 3 steps.

Step 1: Perform $(1 \div x)$. Count the number of recurring digits (rd).

If $rd = x-1$, the number is prime.

If not, go to step 2.

Step 2: perform $[T] = [99999999 \dots (x-1 \text{ times } 9) \div \{1 \div x \times 10^{(x-1)}\}]$

If $[T]$ is not equal to x, the number is composite.

If $[T] = x$, go to step 3.

Step 3: Perform $\{x \div (rd + 1)\}$

If remainder = 0 then it is not a prime.

If remainder is not equal to zero, it is a prime.

Thank you. Bholenath.

-Rishi Tuteja

