

Question 4. Write an algorithm and flowchart to determine whether a number is prime or not.

Answer 4.

Algorithm

Step 1: Start.

Step 2: Input a number N .

Step 3: Assume a variable ct and initialize it to 0

Step 4: Assume another variable i and initialize it to 1

Step 5: If i is less than N then **GO TO Step 9**.

Step 6: If N is divisible by i add 1 to variable ct .

Step 7: Add 1 to variable i .

Step 8: **GO TO Step 5**.

Step 9: If value of ct is equal to 2 print that "N is a prime number"
else print "N is not a prime number".

Step 10: End.