Sample Practice Problems

**Nth prime Problem**

By listing the first six prime numbers: 2, 3, 5, 7, 11, and 13, we can see that the 6th prime is 13.

What is the Nth prime number?

N can be any natural number.

**Multiples of x and y Problem**

If we list all the natural numbers below 10 that are multiples of 3 or 5, we get 3, 5, 6 and 9. The sum of these multiples is 23.

Find the sum of all the multiples of x or y below Z.

x, y, z belong to whole numbers

**Largest prime factor Problem**

The prime factors of 13195 are 5, 7, 13 and 29.

What is the largest prime factor of the number X?

**Palindrome or not**

Palindrome is a word or phrase that reads the same backwards as forwards for example “121”, “1221”

To identify whether a given word is a palindrome or not