

Board –CBSE	Class – 6 th	Topic – Prime and Composite Numbers
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What are Prime Numbers and Composite Numbers?

A prime number is a number which has exactly two factors i.e. '1' and the number itself. A composite number has more than two factors, which means apart from getting divided by 1 and the number itself, it can also be divided by at least one positive integer. 1 is not a prime or composite number. Apart from these two, there is also a similar category of numbers which are coprime numbers. A detailed explanation of these numbers is given below.

Prime Numbers

A prime number is the one which has exactly two factors, which means, it can be divided by only '1' and itself. But '1' is not a prime number.

Example of Prime Number

3 is a prime number because 3 can be divided by only two numbers i.e. 1 and 3 itself.

- $3/1 = 3$
- $3/3 = 1$

In the same way, 2, 5, 7, 11, 13, 17 are prime numbers.

Composite Numbers

A composite number has more than two factors, which means apart from getting divided by the number 1 and itself, it can also be divided by at least one integer or number. We don't consider '1' as a composite number.

Example of Composite Number

12 is a composite number because it can be divided by 1, 2, 3, 4, 6 and 12. So, the number '12' has 6 factors.

- $12/1 = 12$
- $12/2 = 6$
- $12/3 = 4$
- $12/4 = 3$
- $12/6 = 2$
- $12/12 = 1$

Types of Composite Numbers

There are two types of composite numbers:

1. Even composite numbers
2. Odd composite numbers

Odd Composite numbers

The odd positive integers or the odd numbers that are not prime numbers are called odd composite numbers. For example, 9, 21, 33, 45, etc, are odd composite numbers.

Even Composite numbers

The even numbers that are not prime numbers are called even composite numbers. For example, 4, 10, 16, 28, 56, etc, are even composite numbers.

Prime and Composite Numbers List

The list of prime numbers from 1 to 100 are:

2	3	5	7	11
13	17	19	23	29
31	37	41	43	47
53	59	61	67	71
73	79	83	89	97

The list of composite numbers from 1 to 100 are:

4,6,8,9,10,12,14,15,16,18,20,21,22,24,25,26,27,28,30,32,33,34,35,36,
38,39,40,42,44,45,46,48,49,50,51,52,54,55,56,57,58,60,62,63,64,65,
66,68,69,70,72,74,75,76,77,78,80,81,82,84,85,86,87,88,90,91,92,93,
94,95,96,98,99,100