



SUBJECT:- MATHEMATICS

TOPIC:- PRIME AND COMPOSITE NUMBERS

CHAPTER – 3 (PART - 2)

GUIDELINES:

Dear students

Kindly refer to the following notes/video links from the Chapter- "PLAYING WITH NUMBERS " and thereafter do the assignment questions in your Maths notebook .
(Chapter3 – Part 2)

LINK FOR THE CHAPTER:- <http://ncert.nic.in/textbook/textbook.htm?femh1=3-14>

INTRODUCTION:

Let's recall odd and even number :

EVEN NUMBER:

Any number that can be exactly divided by 2 is called as an even number. Even numbers always end up with the last digit as 0, 2, 4, 6 or 8.
Some examples of even numbers are 2, 4, 6, 8, 10, 12, 14, 16.

ODD NUMBER:

Any number that **cannot** be divided exactly by 2 is an **odd number**.

The last digit is 1, 3, 5, 7 or 9

Example: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19 and so on are all odd numbers .

Even and Odd Numbers

EVEN NUMBERS	ODD NUMBERS
END IN	END IN
0 2 4	1 3 5
6 8	7 9
Ex: 12, 46, 30	Ex: 11, 37, 23

learn

LET'S STUDY, SOME MORE DIFFERENT TYPES OF NUMBERS...

SUBTOPICS

- ❖ Prime numbers
- ❖ Composite numbers
- ❖ Twin primes

KEY POINTS

Refer to the link for prime and composite numbers:

[https://www.examfear.com/free-video-lesson/Class-6/Maths/Playing-With-Numbers/part-7/Maths_Playing_With_Numbers_part_7_\(Prime_&_composite_numbers\)_CBSE_Class_6.htm](https://www.examfear.com/free-video-lesson/Class-6/Maths/Playing-With-Numbers/part-7/Maths_Playing_With_Numbers_part_7_(Prime_&_composite_numbers)_CBSE_Class_6.htm)

❖ Prime numbers

The numbers which have only **two factors**, that is 1 and the number itself are called PRIME NUMBERS.

Such numbers are 2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,59, etc. These numbers are prime numbers.

❖ Composite numbers

The numbers having more than 2 factors are called **COMPOSITE NUMBERS**.

There are numbers having more than two factors like 4, 6, 8, 9, 10, 12, 15 and so on. These numbers are composite numbers.

FOR EXAMPLE :

Factors of 4 are 1, 2 and 4

Factors of 6 are 1, 2, 3 and 6

❖ Twin primes

(Refer to the link : <https://www.youtube.com/watch?v=JPXrOtEg3Wk>)

Two prime numbers whose difference is 2 are called **twin primes**.

FOR EXAMPLE :

- 3 and 5, such that $5 - 3 = 2$
- 5 and 7, such that $7 - 5 = 2$
- 11 and 13, such that $13 - 11 = 2$

POINTS TO REMEMBER-

1. A prime number is a natural number that has only two factors, 1 and the number itself.
2. Number 1 is neither prime nor composite. It is a unique number.
3. 2 is the smallest even prime number.
4. Every prime number except 2 is odd.

ASSIGNMENT

From N.C.E.R.T textbook **Exercise 3.2 (Q 1 , 4 , 5 ,6 , 10 and 11)** is to be done **in Maths notebook.**

MORE QUESTIONS FOR PRACTICE :

(These questions are for practice using the given link and not to be done in any notebook)

QUESTIONS ON PRIME NUMBERS: https://www.khanacademy.org/math/in-in-class-6-math-india-icse/in-in-playing-with-numbers/in-in-6-prime-numbers-icse/e/prime_numbers?modal=1

QUESTIONS ON COMPOSITE NUMBERS: https://www.khanacademy.org/math/in-in-class-6-math-india-icse/in-in-playing-with-numbers/in-in-6-prime-numbers-icse/e/composite_numbers?modal=1

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