

Mr. AKHAND BAHADUR SINGH

- **TGT(Mathematics)**
- **Kendriya vidyalaya vikaspuri 2nd shift**
- **Uttam Nagar**
- **New Delhi**

CIRCULAR FOR VIDYADAN 2.0

Tagging

1. Subject – Mathematics
2. Grade-6
3. Chapter Number of NCERT Textbook – chapter 3
4. Title – Playing With Numbers

List of contents attached

5. Learning Outcomes – i)Prime and Composite Number

ii)Odd and even number

iii) Hcf and Lcm

6. Lesson Plans- A number having exactly two factors are called Prime number. Such as 2,3,5,7....

A number having more than two factors is called composite number ex-4,6,8,9.....

All multiple of 2 are called Even numbers. Such as 2,4,6,8,10.....

Number which are not multiple of two are called odd numbers. Such as 1,3,5,7,9.....

Highest Common factor is the largest number that divides all the given numbers exactly.

Q. Find HCF of 30,42

$$30=2 \times 3 \times 5$$

$$42=2 \times 3 \times 7$$

$$\text{HCF} = 2 \times 3 = 6$$

Lowest Common Multiple of two or more numbers is the Smallest number which is multiple of each of the numbers.

Q. Find LCM of 63,70,77

$$63=3 \times 3 \times 7$$

$$70=2 \times 5 \times 7$$

$$77=7 \times 11$$

$$\text{LCM} = 2 \times 3 \times 3 \times 5 \times 7 \times 11 = 6930$$

7. Experimental Content –

Perfect Number-A number is called Perfect Number if the sum of this all factors =twice the number

Possible factor of 6=1,2,6

$$\text{Sum of the Factors} = 1+2+6+3+6=12$$

$$=2 \times 6$$

Therefore 6 is a Perfect Number.

8. Explanation Content –

Twin Prime-Two Prime numbers whose difference is two are called Twin Prime.

Such as-3 and 5,5and 7

Co-prime –Two number are called Co-prime if they have only one as a Common Factor. Example -3 and 4.

9. Innovative Content –

i) Natural Numbers- Counting Numbers Such as 1,2,3,4.....are called Natural Numbers.

ii)Whole Numbers-Natural numbers including 0 is called Whole Numbers.

Such as 0,1,2,3,4.....

10. Measuring attainment of Los-

Q.1 Write first Prime Numbers.

Q2.What is smallest Whole Number.

Q3. Find HCF of 70,105,175.

Q4. Find LCM of 18,32and 48.

Q5. Write Prime Factor of 15470.

11. Question Bank

Q1. Write first 5 Multiple of 11.

Q2. Write all Factors of 72.

Q3. Write odd Numbers between 10 and 50.

Q4. Write Prime Factorisation of 36.

Q5. Write the HCF of 12, 45 and 85.

Q6. Write LCM of 403, 465 and 450.

12. Curiosity Question

Q1. What is largest Number.

Q2. Is 642 divisible by 3.

Q3. Write all the Numbers less than 100 which are Common Multiple of 3 and 4.

13. Mind Map/Concept Map-

Test of Divisibility by 11- A number is divisible by 11 if the difference of the sum of its digits in odd places (from the right) and the sum of its digit in even places is either 0 or multiple of 11.

Example- Number = 803 $8+3=11$ 0 $11-0=11$

So, 803 is divisible by 11

14. Power Point Presentation -

https://drive.google.com/open?id=1sEJOOk3J8cexRtk_XamP1fyL5VPVHt3IL