## TOPIC-MULTIPLES AND FACTORS

NAME - $\qquad$ CLASS IV/SEC $\qquad$ DATE -23/1 1/2020 27/11/2020

## Learning outcomes: -

Each child will be able to-
$>$ Apply the concept of multiples in the given situations.
$>$ Observe, explore and apply the concept of common multiples to find the LCM using number lines and listing multiples method.

## Let's Practice:

Q1. Write the first five multiples of the following numbers:
a) 11
b) 7
c) 25

Q2. Write all the multiples of 12 between 20 and 80 .

Q3. Write the $6^{\text {th }}$ multiple of 13.

Q4. Write the multiples of 12 less than 84 .

Q5. Write the multiples of 15 greater than 60 less than 150.

Q6. Write the first four even multiples of 5 .

Q7. Write the first five odd multiples of 9.

## TIME TO EXPLORE COMMON MULTIPLES !!!!!

Common Multiples
Bunny and Cattu are walking on a ladder bridge. Bunny takes 2 steps at a time
and Cattu takes 3 steps at a time. Write the steps each one takes to reach number 36 .

$0 \quad 3$
6
9
$12 \quad 15$
18
Colour all the steps red which Bunny and Cattu both will step on.

Bunny is counting
Bunny is counting the table of 2 ie. the multiples

And Cattu is counting the table of 3 ie. the multiple

## Common Multiples

## Look at the multiples of 2 and 3 on the number line.

Multiples of $2=2,4$ (6) 8,10 , (12) $14,16, \ldots$. Multiples of $3=3$ (6) 9, (12) 15 , Common multiples of 2 and 3 are 6 (12).

## LET'S PRACTICE:



If the number in the above snake is a multiple of 3 , colour the circle. If ith a multiple of 6 , cross the circle. Now write down the common multiples of 3 and 6.
2. Use the number line to find out the common multiples of
(1) 2 and 4

Common multiples of 2 and 4 are
(ii) 2 and 5

| 00 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Commen multiples of 2 and 5 are
(iii) 2 and 9

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Common multiples of 2 and 9 are $\qquad$

## LEAST COMMON MULTIPLE ( LCM )

## Example:

Write the first 3 common multiples of 3 and 6 . Also, find the Least Common Multiple (LCM) of 3 and 6 .

Multiples of $3=3,6,9,12,15,18,21,24$ $\qquad$

Multiples of $6=6,12,18,24,30,36,42,48 \ldots . .$.

First 3 common multiples of 3 and $6=6,12,18$
Least Common Multiple of 3 and $6=6$

## Q1. Find the following :

a. First 3 common multiples of 3 and 9 . Also, find out their LCM.
b. First 4 common multiples of 4 and 8 . Also, find out their LCM.
c. Common multiples of 5 and 10 which are less than 60 .

## NOTE:

Use the following links for the better understanding of the concept taught:

## https://voutu.be/CIkDcENjzBA

## https://voutu.be/3H-c4JKt-gY

