

# BAL BHARATI PUBLIC SCHOOL, PITAMPURA, DELHI-110034 CLASS V SUBJECT-MATHEMATICS TERM 2 (2020-21)

### **TOPIC-FACTORS**

NAME -	CLASS V/ SEC	DURATION - 09.11.2020 to 19.11.2020

#### **LEARNING OUTCOMES:** Each child will be able to:

- revise the properties of factors.
- find factors and common factors correctly of at least 4 or 5 numbers.
- apply the concept of factors correctly in 3 or 4 given situations.

### Clap! Clap! Clap your hands......

- \*Clap your hands on multiples of 2
- \*Clap your hands on multiples of 3
- \*Which number you clapped both times? What can this number be called?

LET'S REVISE:

**FACTORS** 

We all know that:

The numbers that are multiplied together to give the product can divide the product completely, so they are called factors.

Example 1: 2 X 4 X 5 = 40 So, 2, 4, and 5 are factors of 40 because 40 is exactly divisible by 2, 4 and 5.

$$40 \div 2 = 20$$

$$40 \div 4 = 10$$

$$40 \div 5 = 8$$

Example 2: 7 X 9 = 63 So, 7 and 9 are factors of 63 because 63 is exactly divisible by 7 and 9.

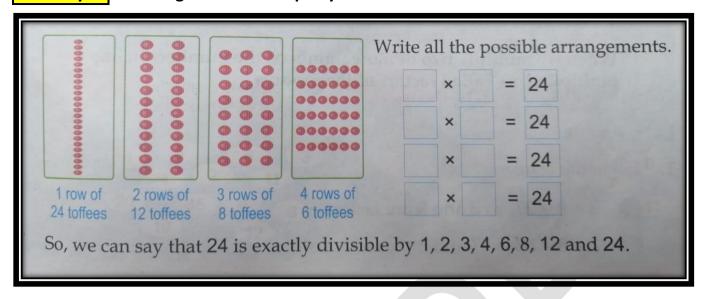
$$63 \div 7 = 9$$

$$63 \div 9 = 7$$

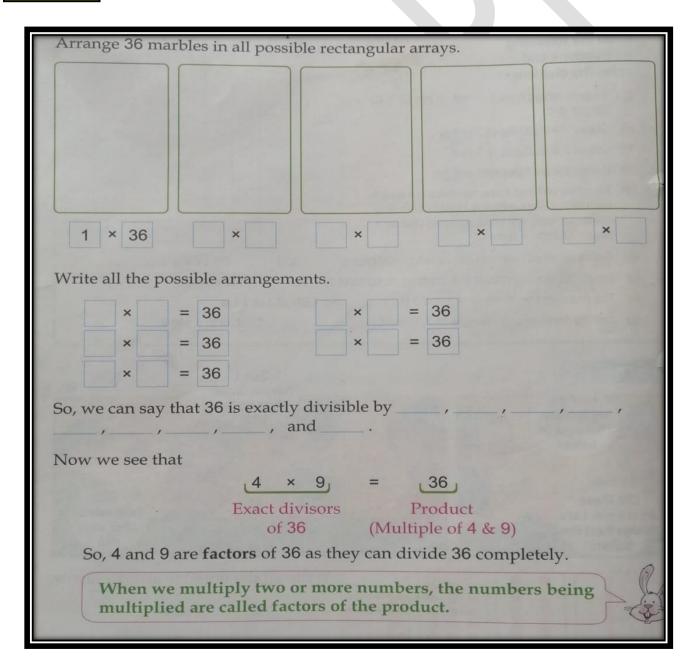
Let's watch these videos to know more about factors: <a href="https://youtu.be/qc8LHRMs6FQ">https://youtu.be/qc8LHRMs6FQ</a>
<a href="https://youtu.be/0IZyGB1qQmM">https://youtu.be/0IZyGB1qQmM</a>

Let's do some activities to apply the concept of factors in different daily life situations.

Activity 1 : Arrange 24 toffees equally in rows and columns.



Activity 2 : Now arrange 36 marbles equally in rows and columns.



### PRACTICE TIME: (TO BE DONE IN THE NOTEBOOK)

Q 1. Fill in the blanks:

a) 
$$3 X = 24$$

Q 2. Is 9 a factor of 108? Yes / No

Why?

Q 3. Find any two factors of 120. \_\_\_\_\_, \_\_\_\_\_

Q 4. Find all factors of:

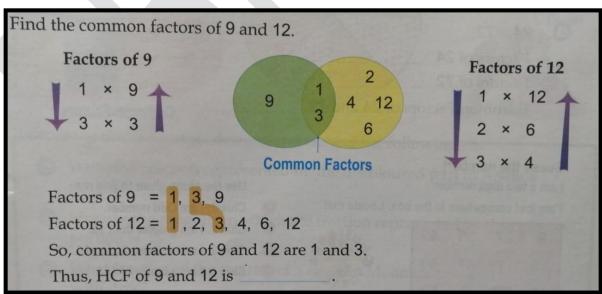
- a) 48 -
- b) 50 -
- c) 18 -
- d) 72 -
- e) 100 f) 45 -

Q 5. The smallest factor of 35 is \_\_\_\_

### **COMMON FACTORS**

Watch this video to understand COMMON FACTORS and HCF: https://youtu.be/KJ0D379OEmo

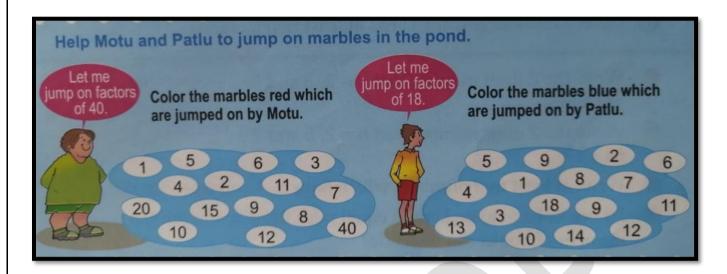
#### **EXAMPLE 1:**



So, we observed that 1 and 3 are the common factors of 9 and 12, as they both divide 9 and 12 exactly.

So, the HCF (Highest Common Factor) of 9 and 12 is

#### **EXAMPLE 2:**



Can you find which marbles will be jumped by Motu and Patlu both? \_\_\_\_\_
These marbles which will be jumped by Motu and Patlu both are called \_\_\_\_\_of 18 and 40.

So, the HCF (Highest Common Factor ) of 18 and 40 is \_\_\_\_\_

#### **PRACTICE TIME:**

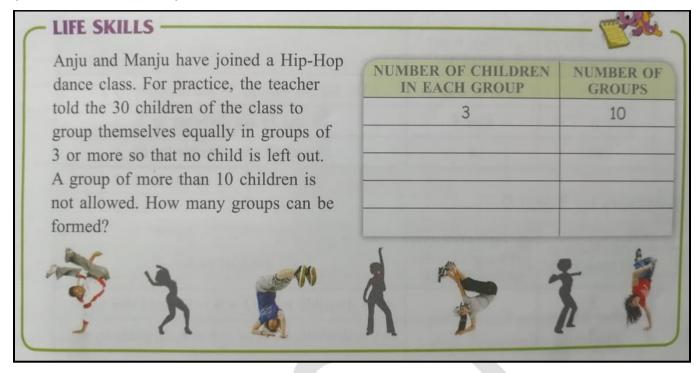
- a) Common factors of 12 and 16
- b) Common factors of 15 and 45
- c) Common factors of 8 and 16
- d) Common factors of 24 and 72

### **POINTS TO REMEMBER**

- Factors are the exact divisors of the number.
- 1 is the factor of every number.
- ➤ The smallest factor of every number is 1.
- The greatest factor of every number is the number itself.
- > The factor of a number is smaller than or equal to the number.
- Every number has at least two factors 1 and itself. But the number 1 has only one factor.

## LIFE SKILLS

## (To be done at home)



AIL ACTIVITY: FACTOR FLOWERS CRAFTIVITY (To be done at home)

On an A4 sheet, create a colourful Garden Scene full of factor flowers. Choose a number and create its factor flower showing all factors of it.



