# **Representing Data**

### **Concept of Representing Data**

- Data means information we collect
- We collect data to count, compare, and understand things better
- Representing data means showing the collected information clearly
- We can use pictures, tallies, numbers, or tables to show data
- Data helps us find answers easily
- When we draw or write data, it is called a pictograph or table

### **Ways to Represent Data**

- Using Pictures (Pictograph): One picture can show one or more items
- Using Numbers: Write how many items are there
- Using Tally Marks: One line = one item, group of 5 is shown with four lines and a cross
- Using Tables: List the things and the number beside them
- Tavourite Fruits of Students

Fruit	Picture (Each 🛑 = 2 Students)	Number	Tally Marks
Apple		6	
Banana	2222	8	
Mango		4	
Orange		6	
Grapes		10	

#### **Examples with Solutions**

1. In a class, 4 students like apples, 3 like bananas, and 2 like mangoes. Show using numbers.

**Solution:** 

Apples – 4

Bananas – 3

Mangoes – 2

### 2. Count and write how many red, blue, and green balls are there:

Red – •••

Blue –

Green – ••••

#### **Solution:**

Red - 3

Blue – 2

Green - 4

### 3. Students who bring these tiffins:

Solution:

Sandwich – 5

Paratha – 3

Idli - 2

#### **Show using tally marks**

Sandwich – |

Paratha - |||

Idli – ||

#### 4. Make a table for the number of pets in 4 houses:

House A – 2 dogs

House B – 1 cat

House C – 2 birds

House D – 1 dog

#### **Solution:**

House	Pet	Number
Α	Dog	2
В	Cat	1
С	Bird	2
D	Dog	1

### 5. Draw a pictograph for students' favourite colors:

Red – 3 students

Blue – 2 students

Green – 4 students

#### **Solution:**

Red –

Blue – 🛑

Green – ••••

## **Summary Points**

- Data is collected information
- Representing data helps us see and understand information clearly
- We can use pictures, numbers, tally marks, or tables to show data
- Pictographs use pictures or symbols
- Tally marks are useful for counting quickly
- Tables show items and their numbers in rows and columns
- Data helps us answer questions like "how many" or "which is more"
- Representing data is useful in real life like class surveys or daily activities
- Data can be shown in fun and colorful ways
- Practicing with real things like fruits or toys makes learning data fun