

# 12

## Data Handling

**We'll cover the following key points:**

- About Lists
- Pictograph
- Bar Graph

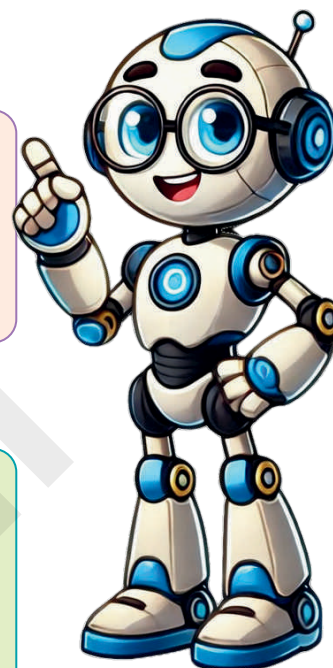
**Do you Remember fundamental concept in previous class.**

**In class 2<sup>nd</sup> we learnt**

- Pictograph

**In class 1<sup>st</sup> we learnt**

- Data Handling



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### Learning Outcomes

**By the end of this chapter, students will be able to:**

- Understand the concept of data and its importance in daily life.
- Collect, organize, and represent data using simple methods like tally marks.
- Create and interpret pictographs with appropriate scales and symbols.
- Represent and read data using bar graphs with basic units.
- Compare and analyze data to draw simple conclusions.
- Identify patterns or trends in data representation.
- Solve simple real-life problems using data representation techniques.
- Develop observational skills by interpreting data from surroundings.
- Understand the terms like "maximum," "minimum," "more," "less," and "equal" in the context of data.



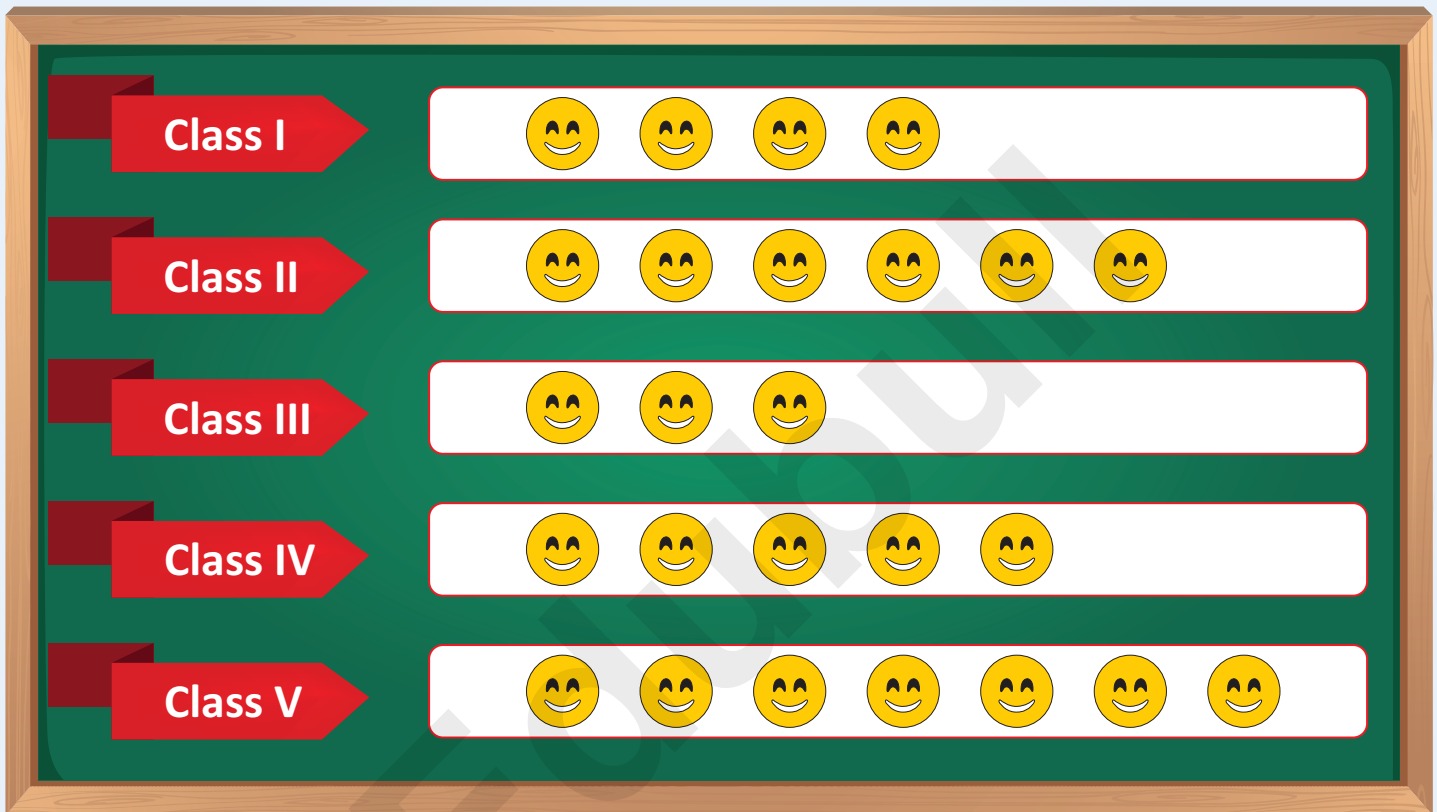
## Warm Up

Conceptual Learning

Observe the pictograph given below and answer to the questions:



Represents 5 students.



Circle (✓) the correct answer:

a. Which class has the highest number of students ?

i. Class 2

☐

ii. Class 4

☐

iii. Class 5

☐

b. Which class has the least number of students ?

i. Class 3

☐

ii. Class 1

☐

iii. Class 5

☐

c. How many students are there in all ?

i. 80

☐

ii. 78

☐

iii. 125

☐

The parents of Shalu are shopping for Shalu's birthday. They need lot of things like balloons, candles, cake, caps, ice-creams, sandwich, patties and juices. They make a list so that they don't forget anything!

Item Number	
Balloons	3 packets
Caps	15
Candles	10
Ice-creams	25
Cake	1

Item Number	
Sandwiches	35
Gulab jamuns	35
Return gifts	18
Patties	35
Juices	35

- A list helps us to organise information about things.
- The information in a list can be in the form of names and numbers.
- Such information is called data.

## More About Lists

Sometimes, we can make a list with more than two columns to show more information.

**Example 1:** The list shows the number of students present and absent in each class on a certain day.

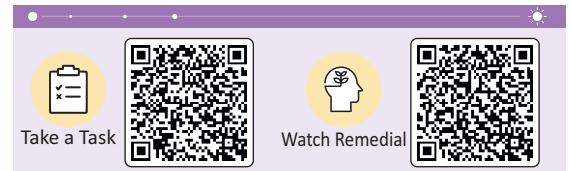
Class	Class I	Class II	Class III	Class IV	Class V	Total
Number of students	45	38	42	60	44	.....
Students present	40	35	41	57	42	.....
Students absent	5	3	.....	.....	.....	.....

**Fill in the blanks in the previous list. Then answer the following questions:**

- (a) How many students were absent in all on that day? .....
- (b) In which class were all students present? .....

- (c) If the school consists of these five classes, how many students are there in the school? .....
- (d) Which class has the most number of students? .....
- (e) Which class has the least number of students? .....

## Pictograph



Data can be shown with the help of pictures. The pictorial representation of data is called a **pictograph**.

**Example 2:** In a school, the students of Class 3 A were asked to name their favourite food. Use the information to make a pictograph.

Favourite Food	Sandwich	Rajma-rice	Burger	Dosa	Noodles
Number of students	12	9	14	5	6

















































The above information can be shown in the form of a pictograph.

### REMEMBER




A pictograph will always have a title. It may also have a note explaining the pictures.

### FAVOURITE FOOD OF STUDENTS OF CLASS 3A

Sandwich	            
Rajma-rice	        
Burger	             
Dosa	    
Noodles	     
Each  stands for 1 student.	



Answer these questions with the help of the above pictograph:

- (a) What does  stand for ? ..... 1 student .....
- (b) Which food is liked by the least number of students ? .....
- (c) Which food is liked by the most of the students ? .....
- (d) How many students are there in Class 3 A ? .....
- (e) What does the pictograph show ? .....

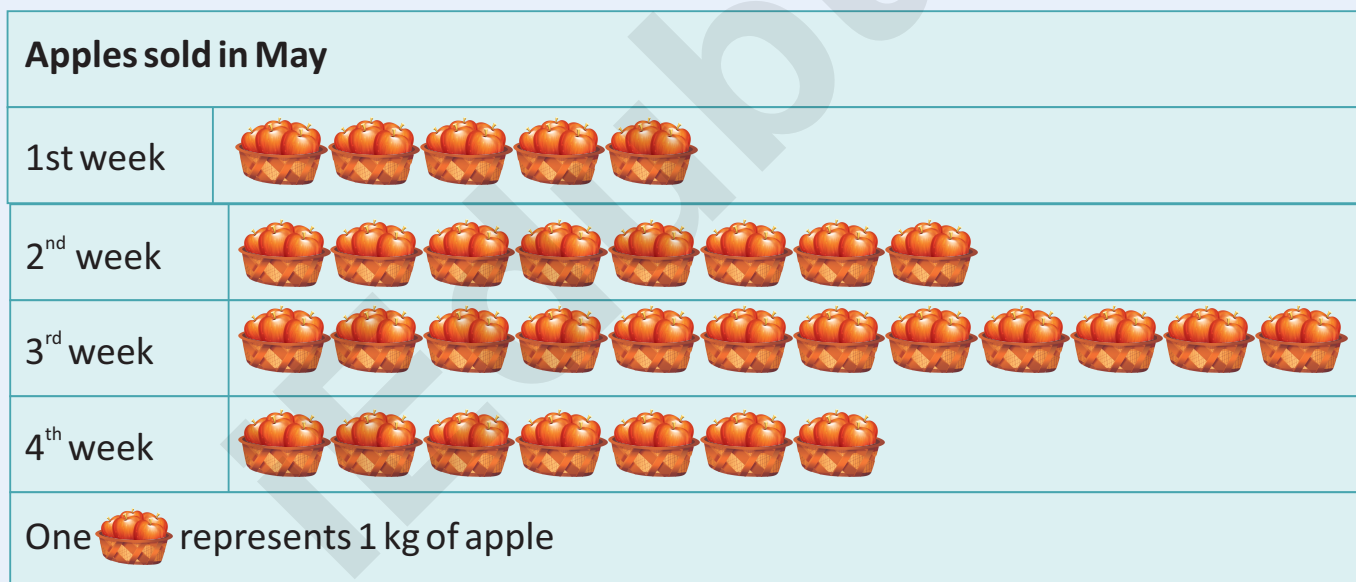
When we use pictures or any other symbols to represent some data or information, it is called pictograph or pictorial representation of data.



## Exercise 12.1

Knowledge Application


### 1. Use this pictograph to answer the questions that follow:



- (a) In which week were the maximum number of apples sold? .....
- (b) How many more apples were sold in the 3<sup>rd</sup> week than in the 1<sup>st</sup> week ? .....
- (c) How many kg of apples were sold in the month of May? .....

2. Use this pictograph to answer the questions that follow:



- (a) What does  represent ? .....
- (b) What information does the pictograph give ? .....
- (c) What was the total number of books issued during the week ? .....
- (d) On which day were the least number of books issued ? .....
- (e) On which day were the most number of books issued ? .....

**Bar Graph**

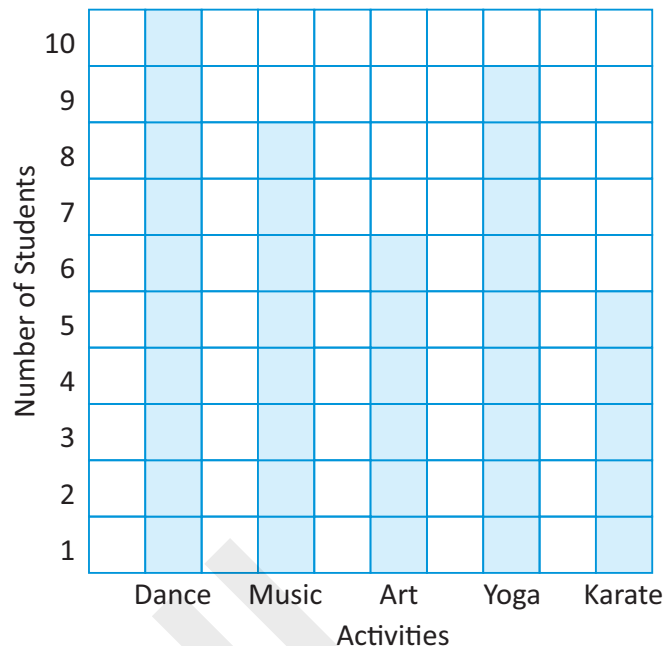
Information can also be shown in bar graphs. A bar graph has bars of different height.

**Example 3:** The following is a list of some activities chosen by some students. Show this information with the help of a bar graph.

Activities	Dance	Music	Art	Yoga	Karate
Number of students	10	8	6	9	5

**Study the bar graph and fill in the blanks:**

- ..... students have chosen Art and Yoga.
- Most students have chosen .....
- The least students have chosen .....



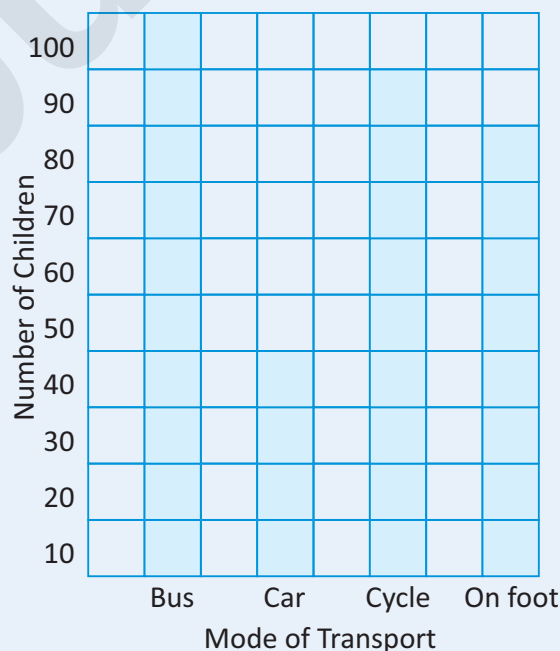
## Exercise 12.2

Knowledge Application

- Study this bar graph which shows the mode of transport used by children to go to school.**

Answer the questions that follow.

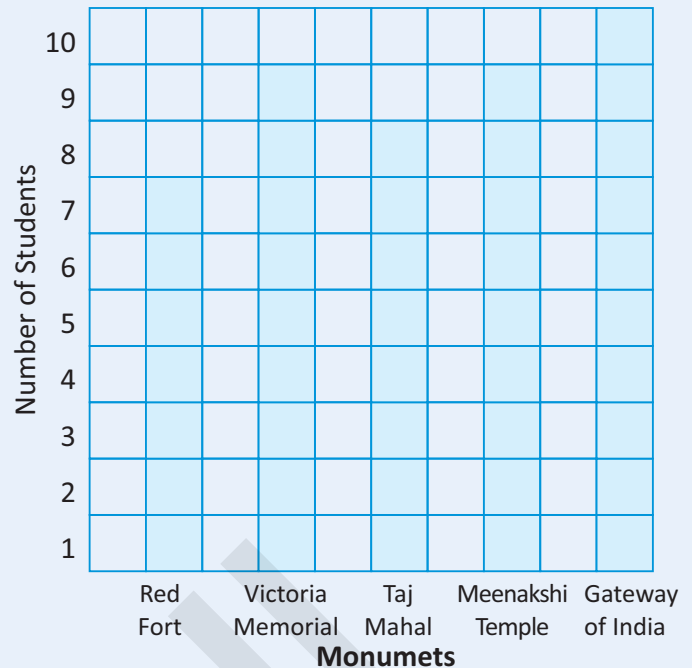
- Which is the most popular mode of transport ? .....
- How many students walk to go to school ? .....
- Which mode of transport is the least used ? .....
- How many students use cycle to go to school ? .....



- This bar graph shows the number of children who have visited various monuments. Study the bar graph and answer the questions that follow:**

- How many children visited the Taj Mahal ? .....
- How many children visited the Taj Mahal and the Victoria Memorial ? .....
- Which monument is visited by the most number of children ? .....

- (d) How many children visited Meenakshi Temple ? .....
- (e) Which monument is visited by the least number of children ? .....



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Think Tank



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# 1. Tick (✓) the correct option:

- (a) In bar graph, which month has least production ?

(i) Jan ☐ (ii) Feb ☐  
(iii) Mar ☐ (iv) Apr ☐

- (b) Which month has maximum production ?

(i) Apr ☐ (ii) Mar ☐  
(iii) Feb ☐ (iv) Jan ☐

- (c) In which month, production was 600 Tonnes ?

(i) Feb ☐ (ii) Jan ☐ (iii) Mar ☐ (iv) Apr ☐

- (d) In which month, production was 300 Tonnes ?

(i) Jan ☐ (ii) Feb ☐ (iii) Mar ☐ (iv) Apr ☐

- (e) How much production was in month of Jan and Feb ?

(i) 300 Tonnes ☐ (ii) 400 Tonnes ☐  
(iii) 700 Tonnes ☐ (iv) 800 Tonnes ☐

