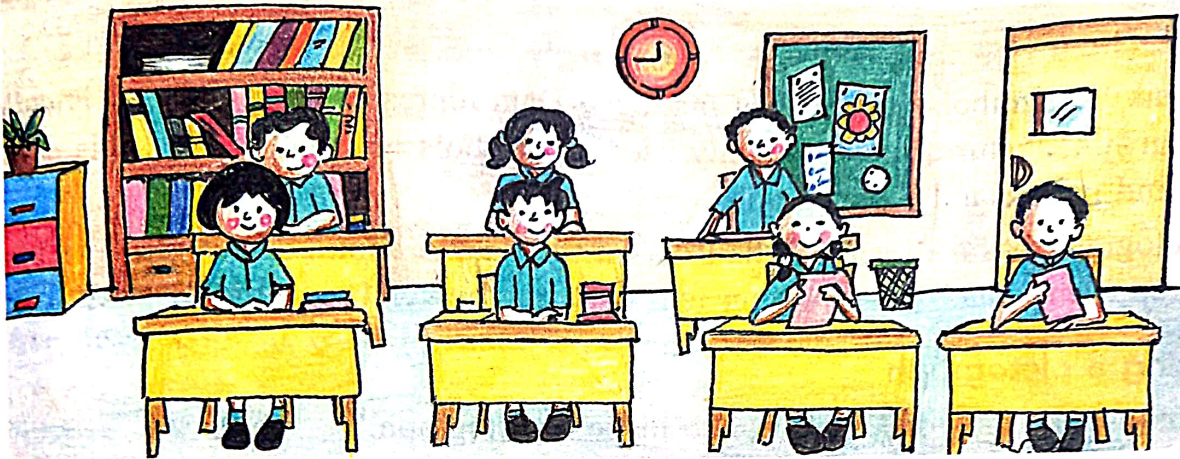




◀ Warm Up! ▶



The given list shows the total number of students in classes 1 to 5 and the students present on the Annual Day yesterday. Answer the following questions and fill in the blanks.

| Class | Class 1 | Class 2 | Class 3 | Class 4 | Class 5 |
|--------------------|---------|---------|---------|---------|---------|
| Number of students | 30 | 26 | 27 | 25 | 28 |
| Students present | 27 | 24 | 27 | 21 | 26 |

1. In which class were all the students present?
2. Which class has the most number of students?
3. How many students were present in classes 4 and 5?
4. How many students are there in all the five classes?
5. How many students were absent in all on that day?

class 3
class 1
 $21 + 26 = 47$
136
11

Key Concepts

◆ Data ◆ Table ◆ Pictograph ◆ Tally marks



EXAMPLE 2 Answer these questions with the help of this pictograph.

1. What does the pictograph show? Favourite food of the students of Class 3A
2. Which food is the favourite of most of the students? Rice
3. Which food is the favourite of the least number of students? Sandwich
4. How many students are there in Class 3A? 35

Checkpoint






























Fill in the blanks.

1. A collection of numbers and words is called data
2. Pictures are used to represent data in a pictograph

Making a pictograph for bigger numbers

EXAMPLE 3 The following number of balloons was sold by a toy shop on five days. Use the data to make a pictograph.

| Day | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------------------|--------|---------|-----------|----------|--------|
| Number of balloons sold | 40 | 60 | 30 | 55 | 80 |

| Number of balloons sold on five days | |
|---|---|
| Monday |     |
| Tuesday |       |
| Wednesday |    |
| Thursday |       |
| Friday |         |
| Each  stands for 10 balloons.  stands for 5 balloons. | |



Quick TIP

We can use a single picture to represent more than one object.

Exercise 11.1



A. Read the pictograph to answer the questions that follow.

| Favourite fruit of the students of Class 3C | |
|---|-------|
| Banana | 😊 |
| Apple | 😊 😊 |
| Orange | 😊 |
| Mango | 😊 😊 😊 |
| Each 😊 stands for 5 students. | |



- The favourite fruit of most students is Mango
- The number of students whose favourite fruit is apple is 10 students
- The total number of students in Class 3C is 35 students

B. The following pictograph shows the number of students who participated in a cycling competition over a period of five years. Read and then answer the given questions.

| Number of students who participated during 2016–2020 | |
|--|---------------------|
| 2016 | 🚲 🚲 🚲 🚲 🚲 🚲 |
| 2017 | 🚲 🚲 🚲 🚲 🚲 🚲 🚲 |
| 2018 | 🚲 🚲 🚲 🚲 🚲 |
| 2019 | 🚲 🚲 🚲 🚲 🚲 🚲 🚲 🚲 🚲 🚲 |
| 2020 | 🚲 🚲 🚲 🚲 🚲 🚲 🚲 🚲 🚲 |
| Each 🚲 stands for 6 students. | |

- How many students participated in 2020? $9 \times 6 = 54$ students
- In which year did the most number of students participate? How many students were there? 2019, $10 \times 6 = 60$ students
- How many students participated in 2016? $6 \times 6 = 36$ students
- How many more students participated in 2019 than in 2018? $5 \times 6 = 30$ students

EXAMPLE 5 Read the tally marks in the table in Example 4 and answer these questions.

1. How many students have blue as their favourite colour?
2. Which colour is the favourite of the most number of students?
3. Which colour is the favourite of the least number of students?
4. How many students have yellow as their favourite colour?
5. Which colour is the favourite of only 5 students?

6
Red
Green
4
Orange



Exercise 11.2

- A. The given data shows how 40 students travel to school. Draw tally marks for this data.

| Mode of transport | Number of students | Tally marks |
|-------------------|--------------------|-------------|
| Bus | 15 | III III III |
| Car | 8 | III III |
| Bicycle | 7 | III II |
| Walk | 10 | III III |



- B. The table shows the number of children and the TV programmes they like to watch. Draw tally marks for the data and answer the questions.

| Programme | Number of children | Tally marks |
|-------------|--------------------|-------------------|
| News | 10 | II II |
| Dance/music | 12 | III III II |
| Cartoons | 21 | III III III III I |
| Nature | 18 | III III III III |
| Sports | 11 | III III I |

1. Which type of programme do most children like?
2. How many children like to watch sports on TV?

Cartoons

11

3. Which type of programme does the least number of children like?

Nature

4. How many children like to watch programmes on nature?

18

C. The following are the games played by 20 children. Use tally marks to record the data and answer the questions.

| | | | | |
|-----------|-----------|----------|----------|-----------|
| Cricket | Badminton | Carrom | Carrom | Football |
| Cricket | Cricket | Football | Carrom | Badminton |
| Badminton | Cricket | Cricket | Football | Football |
| Cricket | Carrom | Carrom | Cricket | Cricket |

| Game | Tally marks | Number of children |
|-----------|-------------|--------------------|
| Cricket | <u> </u> | 8 |
| Football | | 4 |
| Carrom | <u> </u> | 5 |
| Badminton | | 3 |

1. Which game does the most number of children play?

Cricket

2. Which game does the least number of children play?

Badminton

3. How many children play football?

4