

MONTH : JANUARY

SESSION : II

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 21

CHAPTER NAME : DATA HANDLING

SUB-TOPIC : INTRODUCTION PICTOGRAPH

EXERCISE 21 A

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE :






The learners will develop the skills to collect, organise, display, analyse and interpret data.

DATA HANDLING

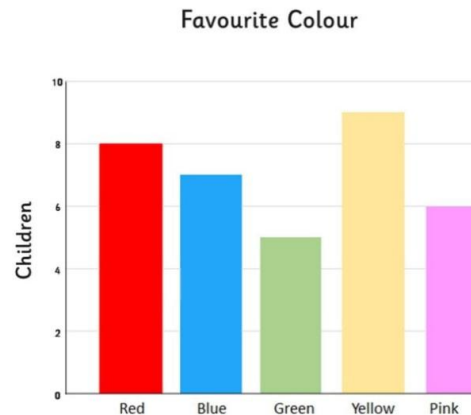
Information collected in the form of **numerical figures** is called data.

Data can be represented in **four** different ways:

1. Pictograph

Small Towns	Number of illiterate children
Melrose	
Marengo	
Midway	
Parral	
Rushville	

2. Bar graph

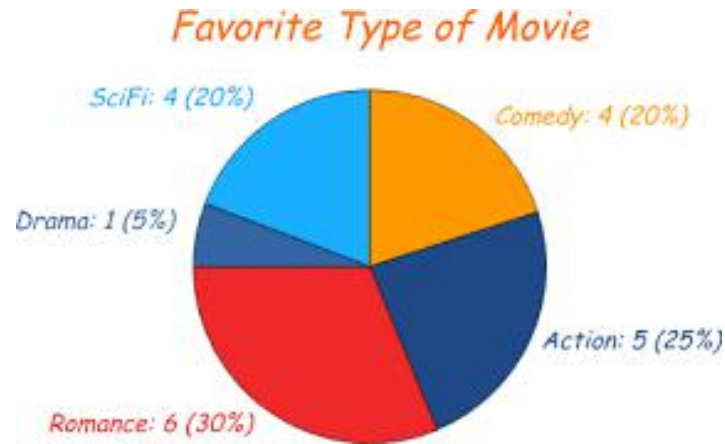


DATA HANDLING

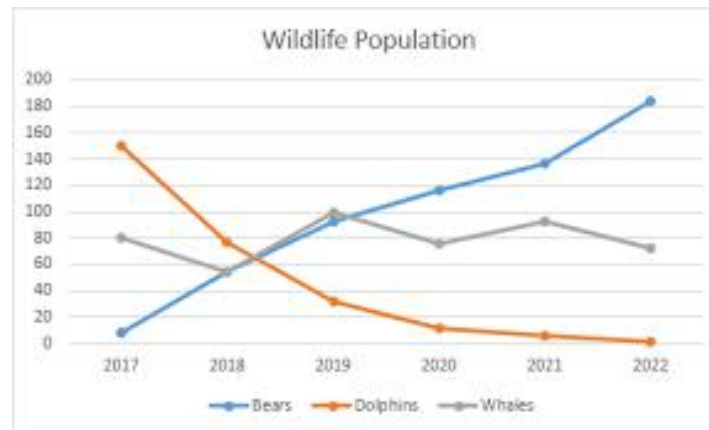


DATA HANDLING

3. Pie chart



4. Line graph



DATA HANDLING



PICTOGRAPH

In a pictograph, a symbol is used to represent one or more objects of the data according to the scale / key selected.

EXAMPLE 1



The pictograph given below shows the number of visitors who visited a planetarium from Monday to Friday.

Monday	Tuesday	Wednesday	Thursday	Friday
2,000	2,200	1,800	2,400	3,000

Scale = \star = 400 persons

\triangle = 200 persons

Day	Visitors to the planetarium
Monday	\star \star \star \star \star
Tuesday	\star \star \star \star \star \triangle
Wednesday	\star \star \star \star \triangle
Thursday	\star \star \star \star \star \star
Friday	\star \star \star \star \star \star \star \triangle

Answer the following questions :

- On which day did the maximum number of visitors visit the planetarium and what was the number ?
- On which day did the least number of visitors visit the planetarium and what was the number ?
- How many visitors visited the planetarium during the week ?

ANSWERS.

a) On Friday and 3000 visitors.

b) On Wednesday and 1800 visitors.







c) It's 11, 400 people.



EXERCISE 21 – A

1 The arrival of passengers in different time intervals on a particular day at a Railway Station is depicted in the pictograph given below.

- Find out the peak hours.
- In which time interval was the arrival of passengers the least ?
- In which time interval was the arrival of passengers less than 8000 ?
- What is the difference between the maximum and minimum number of passengers arrived ?
- How many passengers arrived on that day ?

Time interval (Hours)	Number of passengers arrived
00-04	
04-08	
08-12	
12-16	
16-20	
20-24	

Scale =  1000 persons
=  500 persons

ANS.

a. The peak hours were from **04 : 00 hours to 08 : 00 hours**.

b. From **00 : 00 hours to 04 : 00 hours** the passengers arrival was the least.

EXERCISE 21 – A

c. From **00:00 hour to 04 : 00** hours and **20 :00 hours to 24 :00** hours the arrival of passengers is less than 8000.

d. The difference between the maximum and minimum passengers arrival =

$$12000 - 5000 = 7000$$

e. Total passengers arrived that day = **52, 000.**





EXERCISE 21 – A

2 The pictograph given below gives the weekly sale of milk from a Mother Dairy outlet in Delhi.

- (a) Calculate the total milk sold during the week. If it costs ₹ 32 per litre, calculate the weekly sale.
- (b) On which day was the sale maximum ?
- (c) What was the sale on Wednesday ?
- (d) On which two days was the sale minimum ?

Days	Sales
Sunday	
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	

Scale =  100 litres
 =  50 litres

ANS.

a) Total milk sold in the week =

$$500 \text{ L} + 400 \text{ L} + 350 \text{ L} + 450 \text{ L} + 600 \text{ L} + 350 \text{ L} + 400 \text{ L} = \mathbf{3050 \text{ L}}$$

Cost of 1 L of milk = ₹ 32

$$\text{Cost of 3050 L of milk} = 3050 \times 32 = \mathbf{₹ 97,600}$$

$$\begin{array}{r}
 3050 \\
 \times 32 \\
 \hline
 6100 \\
 91500 \\
 \hline
 \mathbf{97600}
 \end{array}$$

EXERCISE 21 – A

- b) On **Thursday** the sale was maximum.
- c) The sale on Wednesday = **450 L**
- d) On **Tuesday** and **Friday** the sale was minimum.



HOMEWORK



Complete Exercise 21 A in the notebook.

The logo for 'Learning Outcomes' features the words 'Learning' and 'Outcomes' in a large, bold, black font with a yellow outline and a drop shadow. To the left of the text is a blue graduation cap with a tassel. Above the word 'Learning' is a red apple with a green leaf.

Learning Outcomes

Students are able:

- **To collect, organise, display, analyse and interpret data.**

THANKING YOU
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GROUP