






























### **Data Handling**























- The sale of shoes of various sizes at a shop on a particular day is given below: 6, 9, 8, 5, 5, 4, 9, 8, 5, 6, 9, 9, 7, 8, 9, 7, 6, 9, 8, 6, 7, 5, 8, 9, 4, 5, 8, 7. Represent the above data in the form of a frequency distribution table.
- The number of two wheelers owned individually by each of 50 families are listed below. Make a table using tally marks: 1, 1, 2, 1, 1, 1, 2, 1, 2, 1, 0, 1, 1, 2, 3, 1, 2, 1, 2, 1, 2, 3, 1, 0, 2, 1, 0, 2, 1, 2, 1, 2, 1, 1, 4, 1, 3, 1, 1, 2, 1, 1, 1, 1, 2, 3, 2, 1, 1
- The lengths in centimetres (to the nearest centimetre) of 30 carrots are given as follows: 15, 20, 22, 22, 21, 21, 20, 22, 15, 20, 15, 21, 21, 18, 18, 21, 20, 18, 20, 15, 20, 18, 20, 15, 21, 18, 20, 18, 22. Arrange the data given above in a table using tally marks and answer the following questions.
  - What is the number of carrots which have length more than 20 cm?
  - Which length of the carrots occur maximum number of times? Minimum number of times?
- Construct a frequency table for the following: 3, 2, 5, 4, 1, 3, 2, 2, 5, 3, 1, 2, 1, 1, 2, 2, 3, 4, 5, 3, 1, 3.
- Construct a frequency table for the following: 7, 8, 6, 5, 6, 7, 9, 8, 10, 7, 6, 7, 8, 8, 9, 10, 5, 7, 8, 6.
- Following is the choice of sweets of 30 students of Class VI: Ladoo, Barfi, Ladoo, Jalebi, Ladoo, Rasgulla, Jalebi, Ladoo, Barfi, Rasgulla, Ladoo, Jalebi, Jalebi, Rasgulla, Rasgulla, Jalebi, Ladoo, Rasgulla, Ladoo, Ladoo, Barfi, Rasgulla, Rasgulla, Jalebi, Rasgulla, Ladoo, Rasgulla, Jalebi, Ladoo.
  - Arrange the names of sweets in a table using tally marks.
  - Which sweet is preferred by most of the students?
- Thirty students were interviewed to find out what they want to be in future. Their responses are listed as below: doctor, engineer, doctor, pilot, officer, doctor, engineer, doctor, pilot, officer, pilot, engineer, officer, pilot, doctor, engineer, pilot, officer, doctor, officer, doctor, pilot, engineer, doctor, pilot, officer, doctor, pilot, doctor, engineer. Arrange the data in a table using tally marks.
- Following pictograph shows the number of tractors in five villages. Scale used is  = 1 Tractor

Villages	Number of tractors
Village A	     
Village B	    
Village C	      
Village D	  
Village E	     

Observe the pictograph and answer the

following questions.

- Which village has the minimum number of tractors?
  - Which village has the maximum number of tractors?
  - How many more tractors village C has as compared to village B.
  - What is the total number of tractors in all the five villages?
9. Following pictograph represents some surnames of people listed in the telephone directory of a city. Scale used is  = 100 People

Surname	Number of people
Khan	   
Patel	    
Rao	   
Roy	   
Saikia	 
Singh	  

Observe the pictograph and answer the following questions:


- How many people have surname 'Roy'?
  - Which surname appears the maximum number of times in the telephone directory?
  - Which surname appears the least number of times in the directory?
  - Which two surnames appear an equal number of times?
10. The number of bottles of cold drinks sold by a shopkeeper on six consecutive days is as follows:

Day	Sun	Mon	Tue	Wed	Thur	Fri
Number of bottles	350	200	300	250	100	150

Prepare a pictograph of the data using one symbol to represent 50 bottles.

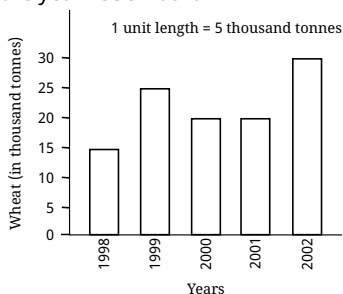
11. Total number of animals in five villages are as follows :

Animal	A	B	C	D	E
Number of animals	80	120	90	40	60

Prepare a pictograph of these animals using one symbol  to represent 10 animals and answer the following questions :

- How many symbols represent animals of village E?
  - Which village has the maximum number of animals?
  - Which village has more animals : village A or village C?
12. Prepare a pictograph of the information given in Q2.
13. Prepare a table form of the data given in Q8.

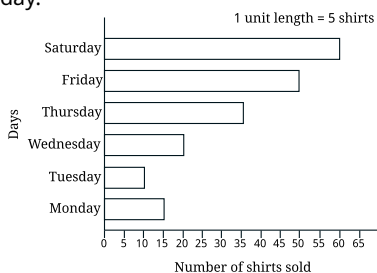
14. The bar graph given alongside shows the amount of wheat purchased by government during the year 1998-2002.



Read the bar graph and write down your observations. In which year was

- (a) the wheat production maximum?  
(b) the wheat production minimum?

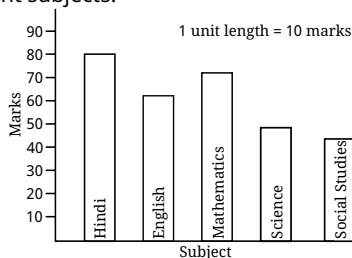
15. Observe this bar graph which is showing the sale of shirts in a ready made shop from Monday to Saturday.



Now answer the following questions :

- (a) What information does the above bar graph give?  
(b) What is the scale chosen on the horizontal line representing number of shirts?  
(c) On which day were the maximum number of shirts sold? How many shirts were sold on that day?  
(d) On which day were the minimum number of shirts sold?  
(e) How many shirts were sold on Thursday?

16. Observe this bar graph which shows the marks obtained by Aziz in half-yearly examination in different subjects.



Answer the given questions.

- (a) What information does the bar graph give?

- (b) Name the subject in which Aziz scored maximum marks.

- (c) Name the subject in which he has scored minimum marks.

17. Number of mobile phone users in various age groups in a city is listed below:

Age group (in years)	1-20	21-40	41-50	61-80
Number of mobile users	25000	40000	35000	10000

Draw a bar graph to represent the above information.

18. The following table shows the number of scooters produced by a company during six consecutive years. Draw a bar graph to represent this data.

Year	2005	2006	2007	2008	2009
No. of scooters	14000	12500	17500	15000	24000

19. Various modes of transport used by 1850 students of a school are given below:

School bus	Private bus	Bicycle	Rickshaw	By foot
640	360	490	210	150

Draw a bar graph to represent the above data.

20. The marks of a student in different subjects are given below:

Subject	HI	ENG	MAT	SCI	SST
Marks	43	56	80	65	50

Draw a bar graph from the above information.

21. The following table shows the market position of different brands of soaps. Draw a bar graph to represent this data.

Brand	A	B	C	D	Others
Percentage of buyers	45	25	15	10	5

22. The data given below shows the average rainfall in Udaipur from June to November of a certain year. Draw a bar graph to represent this information.

Month	Jun	Jul	Aug	Sep	Oct	Nov
Average rainfall	25 cm	30 cm	40 cm	20 cm	10 cm	5 cm

23. Gold prices on 4 consecutive Tuesdays were as under:

Week	First	Second	Third	Fourth
Rate per 10 gm (in?)	8500	8750	9050	9250

Draw a bar graph to represent this information.