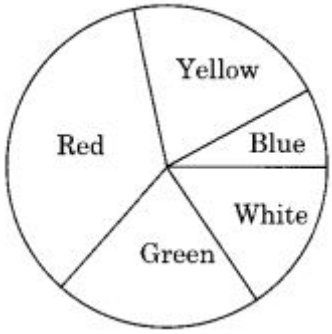
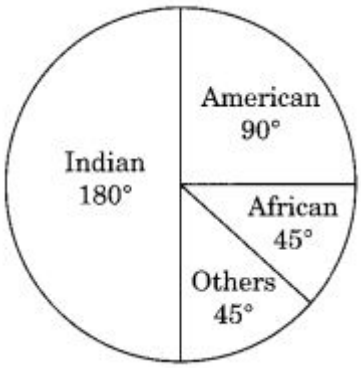
CHAPTER 5
DATA HANDLING
ASSIGNMENT

1. In the class interval 5-10, find the
   (i) lower limit
   (ii) upper limit
   (iii) class mark
   (iv) class size
2. A group of 20 students recorded their heights (in cm). The data received were as given below. What is the range?
   150, 120, 112, 160, 155, 151, 158, 142, 148, 149, 161, 165, 140, 157, 156, 146, 148, 153, 138, 135
3. In the given pie chart, which colour is most popular? Which colour is the least popular?



4. A die is thrown once. Find the probability of getting a number greater than 4.
5. A class consists of 21 boys and 9 girls. A student is to be selected for social work. Find the probability that
   (i) a girl is selected
   (ii) a boy is selected
6. The following pie chart depicts the percentage of students, nationwide. What is the percentage of
   (i) Indian students



   (ii) African students?

7. Construct a frequency table for the following marks obtained by 50 students using equal Intervals taking 16-24 (24 not included) as one of the class-intervals.

52, 16, 18, 20, 42, 48, 39, 38, 54, 58, 47, 37, 25, 16, 42, 49, 36, 35, 53, 21, 30, 43, 56, 34, 33, 17, 22, 24, 37, 41, 40, 50, 54, 56, 54, 36, 38, 42, 44, 56, 17, 18, 22, 24, 17, 48, 58, 23, 29, 58

8. The double bar graph shows the average monthly temperatures of two cities over 4 months period. Read the graph carefully and answer the questions given below:

(i) What does each 1 cm block on the vertical axis represent?

(ii) What was the average monthly temperature in Dehradun in

(a) March

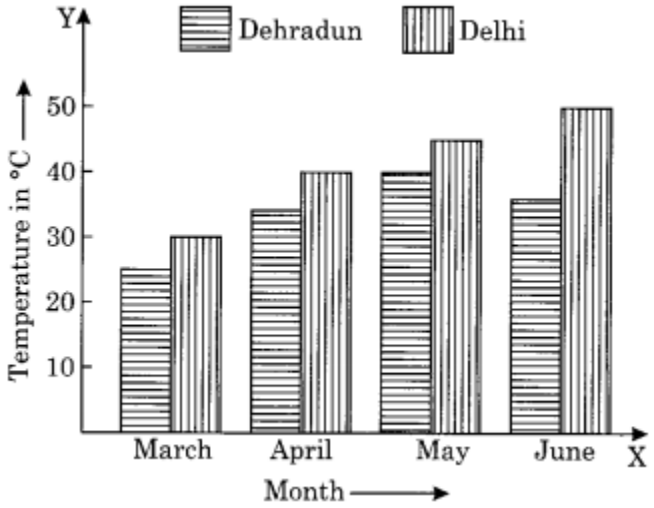
(b) April

(c) May

(d) June?

(iii) What was the average monthly temperature in Delhi for the whole 4 months?

(iv) In which month was the difference between the temperature of Delhi and Dehradun maximum and how much?

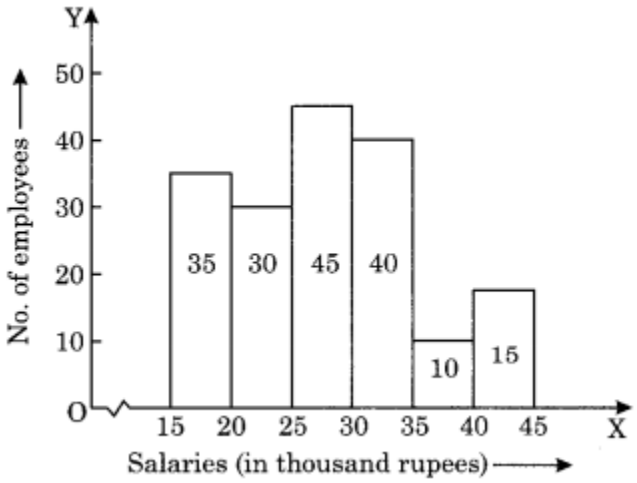


9. The following table represents the number of students in a school playing six different games

Games	Number of students
Hockey	175
Football	200
Cricket	150
Tennis	50
Squash	75
Badminton	40

Present the above information on a bar graph.

10. Prepare a grouped frequency table for the given histogram.



11. Fill in the blanks:

Weights in kg	Class-mark
10–15	—
15–20	—
20–25	—
25–30	—
30–35	—
35–40	—

12. A bag contains 144 coloured balls represented by the following table. Draw a pie chart to show this information.

Colour	Number of balls
Red	12
Yellow	18
Blue	28
Green	42
White	44

13. Mrs Verma spends her allowance in the following way.

Items	Percent
Lunch	25%
Hobby	20%
Recreations	40%
Saving	15%
Total	100%

Represent the above information by a pie chart.

14. What is the probability of getting a marble which is not red from a bag containing 3 black, 8 yellow, 2 red and 5 white marbles?

15. From a well shuffled deck of 52 playing cards, a card is selected at random. Find the probability of getting
    (i) a black card
    (ii) a black king
    (iii) an ace
    (iv) a card of diamond

16. A die is thrown. What is the probability of getting:
    (i) an even number?
    (ii) an odd number?
    (iii) A number between 3 and 6?

17. What is the probability of a number selected from the numbers 1, 2, 3, ..., 20 such that it is a prime number?

18. A bag contains 3 blue and 2 red balls. A ball is drawn at random. What is the probability of drawing a red ball?

19. A group of students was asked for their favorite subject. The results were listed as under:Art, Mathematics, Science, English, Mathematics, Art. English, Mathematics, English; Art, Science,Art, Science, Science, Mathematics, Art. English. Art., Science, Mathematics. Science, Art.
    Answer the following questions:
    (i) Which is the most liked subject?
    (ii) Which is the least liked subject?

20. What is the number of students of Class VIII whose marks obtained in an examination are expressed in the following frequency distribution.

Marks	*Tally Marks*	*Frequency*
0–5	𝍸 I	*6*
5–10	𝍸 𝍸	*10*
10–15	𝍸 III	*8*
15–20	𝍸 IIII	*9*
20–25	𝍸 II	*7*
Total		...

21. The marks scored by 20 students in a test are given below:
84, 57, 53, 89, 41, 57, 47, 64, 58, 44, 53, 72, 51, 78, 71, 62, 56, 68, 54, 42
Complete the following frequency table:

Marks in class interval	Tally Marks	No. of students
40–50		
50–60		
60–70		
70–80		
80–90		

(i) What is the upper limit of 40–50?
(ii) What is the upper limit of 70–80?
(iii) What is the class size?

22. Number of workshops organized by a school in different areas during the last six years are as follows:

Years	Number of workers
1992–93	30
1993–94	25
1994–95	48
1995–96	50
1996–97	45
1997–98	20

Draw a histogram representing the data.

23. Draw a histogram for the daily earnings of 30 general stores given in the following table

Daily earnings (in Rs)	Number of general stores
1450–1500	4
1500–1550	10
1550–1600	9
1600–1650	18
1650–1700	5

24. The number of students admitted in different faculties of a college are given below.

Faculty	Commerce	Arts	Science	Law	Computer	Total
Number of students	450	300	1200	1000	650	3600

Represent the above information by a pie-chart.

25. Draw a pie-chart for the following data of expenditure on various items in a family.

Item	Food	Clothing	Rent	Education	Miscellaneous
Expenditure	15000	5000	14000	20000	6000