DAILY PRACTICE PROBLEM

Data Handling DPP-01

Multiple Choice Questions

Direction (Q.1 to Q.5): Read the passage and answer the following questions. The marks obtained by 10 students in Mathematics test are given below:

52, 26, 34, 78, 34, 98, 75, 62, 72, 80

1. The maximum marks obtained by any student is

(1) 95 (2) 98 (3) 75 (4) 25

2. How many students got the same marks?

(1) 2 (2) 3 (3) 4 (4) 5

3. The range of marks obtained is

(1) 60 (2) 50 (3) 72 (4) 80

4. How many students got 75 or more marks?

(1) 1 (2) 2 (3) 3 (4) 4

5. How many students got marks between 60 and 75?

(1) 1 (2) 2 (3) 3 (4) 4

Direction (Q.6 to Q.10) : The given data shows the number of boys in classes V to X of a school and answer the following questions.

Class	Number of boys
V	𝍸 I
VI	𝍸 𝍸 III
VII	IIII
VIII	II
IX	𝍸 𝍸 III
X	𝍸 𝍸

6. The number of boys in class VI is

(1) 6 (2) 13 (3) 15 (4) 16

7. The number of boys in class X is

(1) 5 (2) 10 (3) 15 (4) None of these

8. The number of boys in class IX is

(1) 6 (2) 10 (3) 13 (4) 16

9. What is the difference between number of boys in class VI and class IX ?

(1) 0 (2) 1 (3) 2 (4) 3

10. What is the difference between number of boys in class V and class X ?

(1) 3 (2) 4 (3) 5 (4) 6

Subjective questions

Direction (Q.11 to Q.13) :

Construct a frequency distribution table for the following marks obtained by 25 students in a history test in class VI of a school:

9, 17, 12, 20, 9, 18, 25, 17, 19, 9, 12, 9, 12, 18, 17, 19, 20, 25, 9, 12, 17, 19, 19, 20, 9

11. What is the range of marks?

12. What is the highest mark?

13. Which mark is occurring more frequently?

14. Following are the choices of games of 40 students of class VI.

Football, Cricket, Football, Kho-Kho, Hockey, Cricket,
Hockey, Kho-Kho, Tennis, Tennis, Cricket, Football,
Football, Hockey, Kho-Kho, Football, Cricket, Tennis,
Football, Hockey, Kho-Kho, Football, Cricket, Cricket
Football, hockey, Kho-Kho, Tennis, Football, Hockey,
Cricket, Football, Hockey, Cricket, Football, Kho-Kho,
Football, Cricket, Hockey, Football

(a) Arrange the choice of games in a table using tally marks.

(b) Which game is liked by most of the students?

(c) Which game is liked by minimum number of students?

15. Prepare a frequency table of the following scores obtained by 50 students in a test:

42, 51, 21, 42, 37, 37, 42, 49, 38, 52, 7, 33, 17, 44, 39, 7, 14, 27, 39, 42, 42, 62, 37, 39, 67, 51, 53, 53, 59, 41, 29, 38, 27, 31, 54, 19, 53, 51, 22, 61, 42, 39, 59, 47, 33, 34, 16, 37, 57, 43

SOLUTIONS DPP-01

1. Option (2)
The maximum marks obtained by any student is 98.

2. Option (1)
2 students got the same marks = 34

3. Option (3)
The difference between the maximum and minimum marks obtained is range = 98 – 26 = 72

4. Option (4)
4 students got 75 or more marks (78, 98, 75, 80).

5. Option (2)
2 students got marks between 60 and 75 (62 & 72)

6. Option (2)
The number of boys in class VI is 13.

7. Option (2)
The number of boys in class X is 10.

8. Option (3)
The number of boys in class IX is 13.

9. Option (1)
The difference between number of boys in class VI and class IX = 13 – 13 = 0

10. Option (2)
The difference between number of boys in class V and class X = 10 – 6 = 4

Solutions (Q.11 to Q.13) : Frequency table of marks obtained by 25 students is given below:

Marks obtained in History	Tally marks	Number of students (frequency)
9	𝍸 |	6
12	||||	4
17	||||	4
18	||	2
19	||||	4
20	|||	3
25	||	2

11. From the table we know that 25 is the highest marks and 9 is the lowest marks
Range = Highest marks – Lowest marks
By substituting the values
Range = 25 – 9 = 16

12. The highest mark from the frequency table is 25.

13. The marks occurring frequently can be found by counting the number of observations.
Hence, 9 occurs more frequently.

14. (a)

Games	Tally Marks	Number of Students
Football	𝍸 𝍸 |||	13
Cricket	𝍸 ||||	9
Kho- Kho	𝍸 |	6
Hockey	𝍸 |||	8
Tennis	||||	4

(b) football is liked by most of the students.

(c) Tennis is liked by minimum number of students.

15. Frequency distribution of the scores obtained by 50 students in a test is given below.

Marks	Tally Marks	Frequency
7	||	2
14	|	1
16	|	1
17	|	1
19	|	1
21	|	1
22	|	1
27	||	2
29	|	1
31	|	1
33	||	2
34	|	1
37	||||	4
38	||	2
39	||||	4
41	|	1
42	𝍸 |	6
43	|	1
44	|	1
47	|	1
49	|	1
51	|||	3
52	|	1
53	|||	3
54	|	1
57	|	1
59	||	2
61	|	1
62	|	1
67	|	1

DAILY PRACTICE PROBLEM

Data Handling DPP-02

Multiple choice questions

Direction (Q.1 to Q.5) : Observe the following pictograph and answer the related questions.

Day	Number of students presents, ⊗ = 20 students
Monday	⊗ ⊗ ⊗ ⊗ ⊗ ⊗
Tuesday	⊗ ⊗ ⊗ ⊗ ⊗
Wednesday	⊗ ⊗ ⊗ ⊗
Thursday	⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗
Friday	⊗
Saturday	⊗ ⊗

1. On which day were the maximum number of students present?

(1) Monday (2) Thursday (3) Tuesday (4) Saturday

2. On which day were the minimum number of students present?

(1) Friday (2) Saturday (3) Thursday (4) Wednesday

3. The number of students present on Friday was

(1) 10 (2) 20 (3) 40 (4) 50

4. On how many days more than 40 students were present?

(1) 1 (2) 2 (3) 3 (4) 4

5. On how many days were less than 40 students present?

(1) 1 (2) 2 (3) 3 (4) 4

6. If one symbol  **represents 100 trees, then the number of trees represented by** 

 **are –**

(1) 600 (2) 700 (3) 750 (4) 500

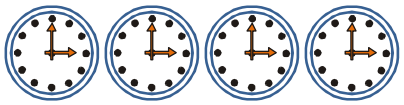
7. The picture graph shows the capacity of 4 containers. Which container has a capacity of 1 litre?

	Represented 100 ml
Bottle	
Flask	
Mug	
Glass	

(1) Bottle (2) Flask (3) Mug (4) Glass

8. A _____ represents data through pictures of object.

(1) graph (2) bar graph (3) pictograph (4) None of these

9. One  **represents 50 watches, then**  **will represent**

(1) 400 watches (2) 200 watches (3) 350 watches (4) none of these

10. If □□□□□ stands for 40, then □□ will stand for

(1) 16 (2) 21 (3) 14 (4) 12

Subjective questions

11. The Sale of electric bulbs on different days of a week is shown below.:

Days	Number of bulbs
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

= 2 bulbs

Observe the pictograph and answer the following questions:

(i) How many bulbs were sold on Friday?

(ii) On which day maximum number of bulbs were sold?

(iii) If one bulb was sold at the rate of Rs 10, What was the total earning on Sunday?

(iv) Can you find out the total earning of the week?

12. A Survey was carried out in a certain school to find about the different modes of transport used by students to travel to school each day. 30 students of class VI were interviewed, and the data obtained was displayed in the form of pictographs given below:

Mode of transport	Number of students
Scooter	
Public bus	
School Bus	
Cycle	
Walking	

Look at the above pictograph and answer the following questions.

(i) How many students are using cycle or walking as a mode of travel?

(ii) Which is most popular mode of travel?

Direction (Q.3 and Q.4): Draw a Pictograph of the following data.

13. The number of trees of various kinds in a fruit orchard are given below:

Tree	Apple	Banana	Peach	Apricot	Plum
Number of trees	56	40	16	32	24

14. The number of chairs in five classrooms of a school are given below:

Classroom	I	II	III	IV	V
Number of chairs	30	40	60	50	20

15. The pictograph shows different subject books which are kept in a library.

Subject	Number of Books
Hindi	
English	
History	
Science	
Maths	
	 = 100 Books

(i) How many English books are there in the library?

(ii) How many maths books are there?

(iii) Which books are maximum in number?

(iv) Which books are minimum in number?

SOLUTIONS DPP-02

1. Option (2)

On Thursday, maximum number of students were present.

2. Option (1)

On Friday, minimum number of students were present.

3. Option (2)

The number of students present on Friday is 20.

4. Option (4)

On 4 days more than 40 students were present. (Monday, Tuesday, Wednesday, Thursday)

5. Option (1)

On 1 day less than 40 students were present. (Friday)

6. Option (4)

The number of trees represented by  are 500.

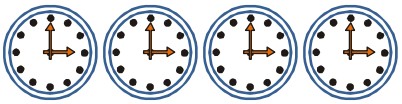
7. Option (1)

Bottle has a capacity of 1 litre.

8. Option (3)

A pictograph represents data through pictures of object.

9. Option (2)



i.e., 50 + 50 + 50 + 50 will represent 200 watches.

10. Option (1)

□ = 8

□□ = 8 + 8 = 16.

11. (i) No. of bulbs shown on Friday = 7

Given that 1 figure = 2 bulb

So, the total number of bulbs sold on Friday = 2 × 7 = 14

Hence, 14 bulbs were sold on Friday.

(ii) From the pictograph, Sunday shows the maximum bulb figures.

Hence, maximum number of bulbs were Sold on Sunday.

(iii) No. of bulb figures sold on Sunday = 2 × 9 = 18

Given that Cost of one bulb = Rs. 10

So, the total earning on Sunday = 10 × 18 = Rs. 180

(iv) Total bulb figures shown throughout the week = 6 + 8 + 4 + 5 + 7 + 4 + 9 = 43

So, the total number of bulbs = 43 × 2 = 86

Total earning of the week = 10 × 86 = Rs. 860

12. (i) From the pictograph we know that
No. of students using cycle = 3
No. of students using walking as a mode of travel = 8
So, the number of students using cycle or walking as a mode of travel = 3 + 8 =11

(ii) From the pictograph we know that maximum number of students use school bus as a mode of travel.
Hence, the most popular mode of travel to school is school bus.

13. Scale used is 1 tree = 8 tree

Trees	Number of trees
Apple	
Banana	
Peach	
Apricot	
Plum	

14. Scale used is 1 Chair = 10 chair

Classroom	Number of chair
I	
II	
III	
IV	
V	

15. Using the above pictograph, we can prepare the chart to find the number of books present in the library:

Subjects	Number of books
Hindi	5.5 × 100 = 550
English	8 × 100 = 800
History	2 × 100 = 200
Science	4 × 100 = 400
Maths	2.5× 100 = 250

(i) Using the chart, we come to know that 800 English books are there in the library.

(ii) From the chart, we come to know that a 250 math books are there in the library.

(iii) English books are maximum in number from the above chart.

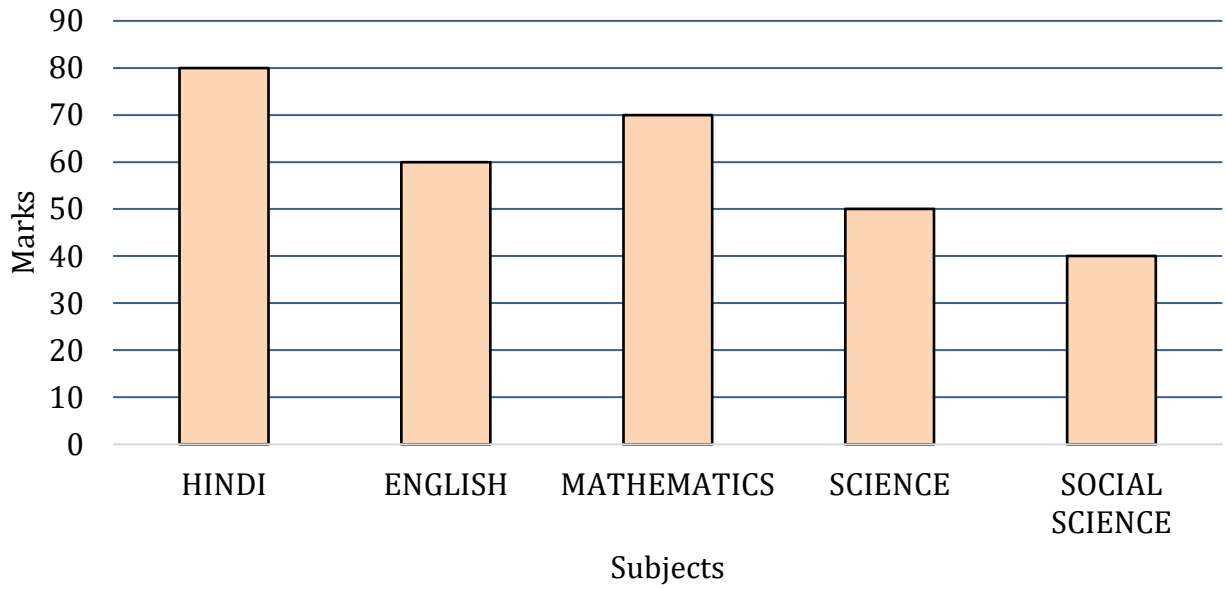
(iv) History books are minimum in number from the above chart.

DAILY PRACTICE PROBLEM

Data Handling DPP-03

Multiple choice questions

Direction (Q.1 to Q.5) : Observe the following bar graph and answer the related questions.



1. In which of the following subject Ramesh scored maximum marks?

(1) English (2) Hindi (3) Mathematics (4) Science

2. In which of the following subjects Ramesh scored minimum marks?

(1) Social Science (2) Hindi (3) Mathematics (4) Science

3. What is the difference between the maximum and the minimum marks?

(1) 30 (2) 40 (3) 20 (4) 10

4. What is the total marks obtained in all the five subjects?

(1) 250 (2) 300 (3) 200 (4) 100

5. In the bar graph the width of the rectangles are

(1) equal (2) decreasing (3) increasing (4) unequal

Subjective questions

6. This bar graph shows the maximum temperatures in degree Celsius in different cities on a certain day in February. Observe the graph and answer the question.

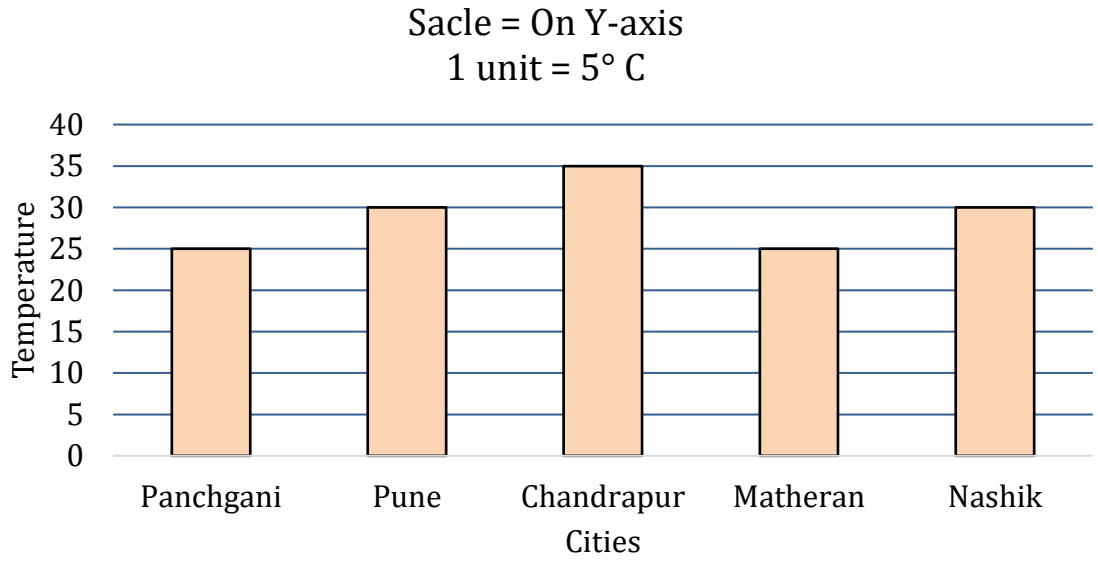
(1) What data is shown on the vertical and the horizontal lines?

(2) Which city had the highest temperature?

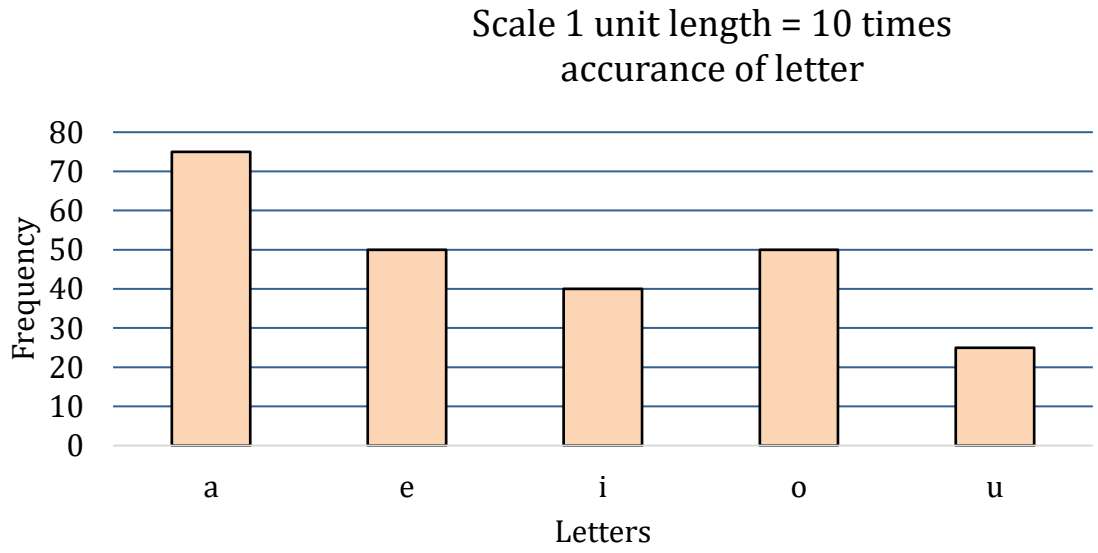
(3) Which cities had equal maximum temperatures?

(4) Which cities had a maximum temperature of 30°?

(5) What is the difference between the maximum temperatures of Panchgani and Chandrapur?



7. The given bar graph represents the frequency of a, e, i, o, and u in a piece of English Writing.



(a) Which letter occurred the maximum number of times?

(b) Which letter occurred 40 times?

(c) Which letter occurred less than 30 times?

(d) Write down the five letters in the decreasing order of frequencies.

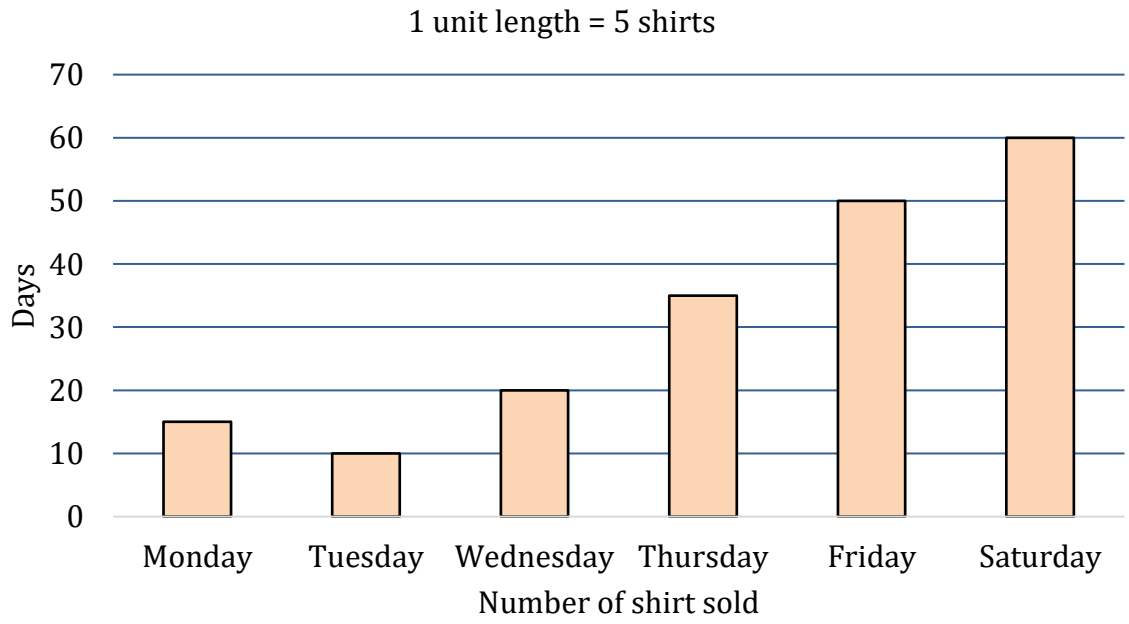
8. Following table shows the number of bicycles manufactured in a factory during the years 1998 to 2002. Illustrate this data using a bar graph. Choose a scale of your choice.

Year	Number of bicycles manufactured
1998	800
1999	600
2000	900
2001	1100
2002	1200

(a) In which year were the maximum number of bicycles manufactured?

(b) In which year were the minimum number of bicycles manufactured?

9. Observe this bar graph which is showing the scale 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?

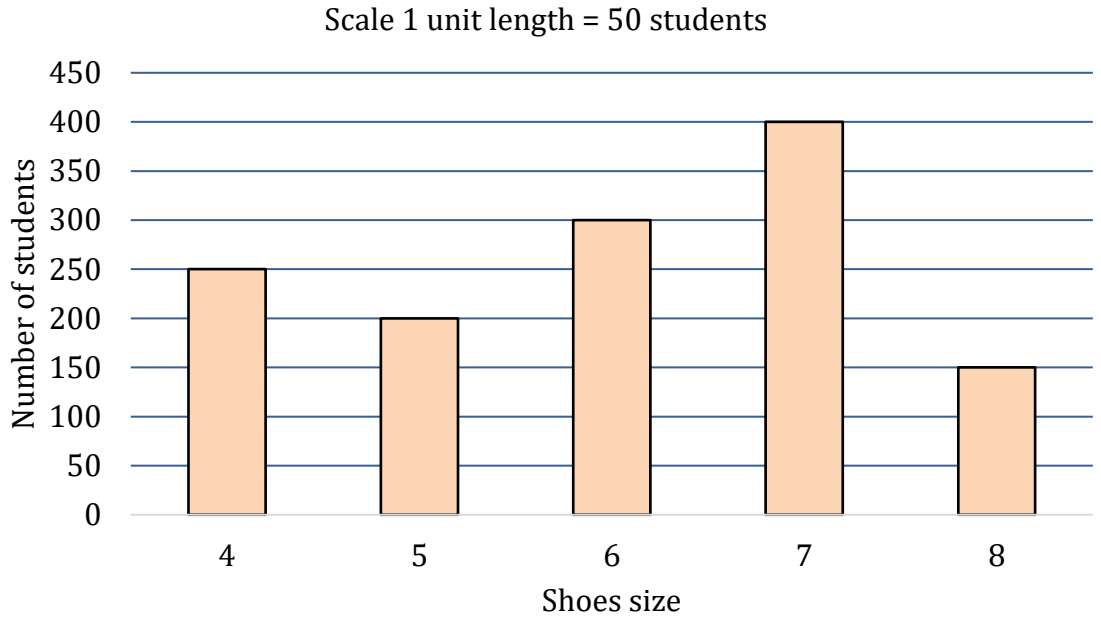
(b) What is the scale chosen on the horizontal line representing number of shirts?

(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?

10. The following bar graph represents the data for different sizes of shoes worn by the students in a school.



Read the graph and answer the following questions:

(a) Find the number of students whose shoes sizes have been collected.

(b) What is the number of students wearing shoe size 6?

(c) What are the different sizes of the shoes worn by the students?

(d) Which shoe size is worn by the maximum number of students?

(e) Which shoe size is worn by minimum number of students?

(f) State whether true or false: The total number of students whose shoes sizes 5 and 8 is the same as the number of students wearning shoe size 6

SOLUTIONS DPP-03

1. Option (2)

Ramesh scored maximum marks in Hindi.

2. Option (1)

Ramesh scored minimum marks in social science.

3. Option (2)

The difference between the maximum & the minimum marks = 80 – 40 = 40.

4. Option (2)

The total marks obtained in all the five subjects = 80 + 60 + 70 + 50 + 40 = 300.

5. Option (1)

In the bar graph the width of the rectangles are equal.

6. (1) Temperature is shown on the vertical line (Y-axis) and different cities are shown on the horizontal line (X- axis).

(2) Chandrapur had the highest temperature (35˚C) as the height of the bar corresponding to city Chandrapur is maximum.

(3) Panchgani and Matheran had equal maximum temperature of 25˚C. Also, Pune and Nasik had equal maximum temperature of 30˚C. Thus, the cities, Panchagani and Matheram; Pune and Nasik had equal maximum temperature.

(4) Pune and Nasik had a maximum temperature of 30˚C

(5) Maximum temperature of Panchgani = 25˚C

Maximum Temperature of Chandrapur = 35˚C

∴ Difference between the maximum temperature of Panchgani and Chandrapur = 35˚C – 25˚C = 10˚C

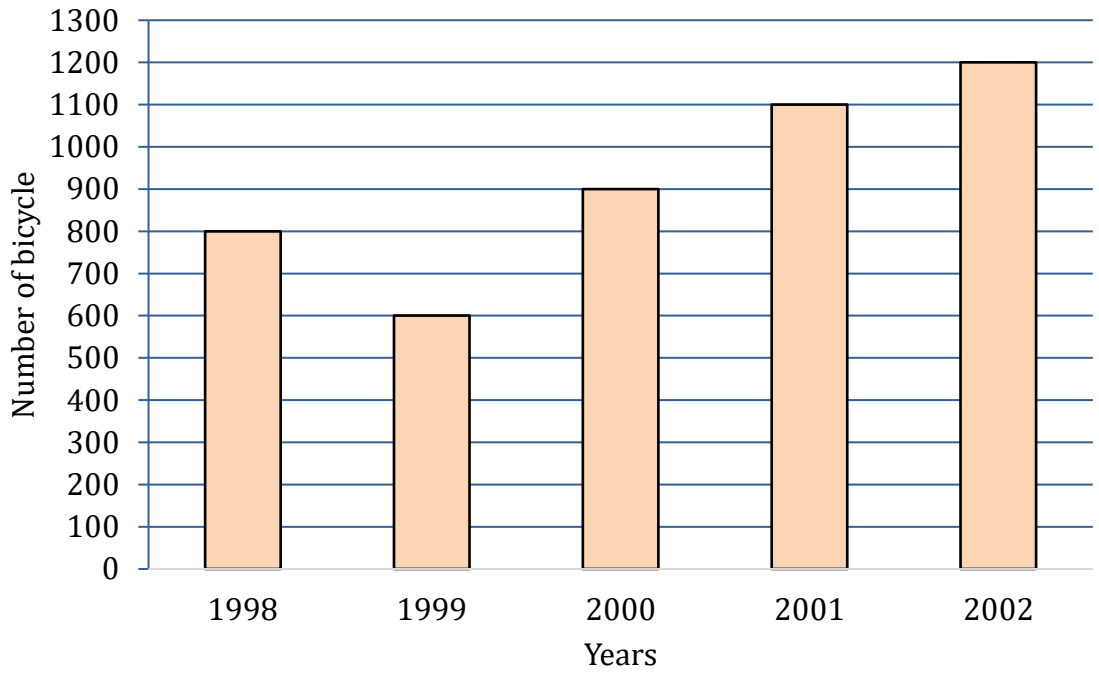
7. (a) 'a' letter occurred the maximum number of times.

(b) 'i' letter occurred 40 times.

(c) 'u' letter occurred less than 30 times.

(d) a, e, o, i, u is the decreasing order of their frequencies.

8. The following bar graph shows the number of bicycles manufactured in a factory during the years 1998-2002.



(a) In the year 2002, maximum number of Bicycles were manufactured i.e., 1200 bicycles.

(b) In the year 1999, minimum number of bicycles were manufactured i.e., 600 bicycles.

9. (a) The given bar graph shows the number of shirts sold from Monday to Saturday

(b) 1 unit length = 5 shirts are the scale on the horizontal line representing number of shirts.

(c) On Saturday maximum number of shirts sold i.e. 60 shirts was sold.

(d) On Tuesday minimum number of shirts sold i.e. 10 shirts was sold.

(e) 35 shirts were sold on Thursday

10. (a) Total number of students whose shoes size have been collected
= 250 + 200 + 300 + 400 + 150 = 1300

(b) Shoe size 6 is worn by 300 students.

(c) Different number of shoes worn by the students are 4, 5, 6, 7, 8.

(d) Shoe number 7 is worn by maximum number of students.

(e) Shoe number 8 is worn by minimum number of students.

(f) False, since total 350 students wore shoe numbers 5 and 8. Whereas only 300 students worn shoe number 6.