Exercise 9.1

Question 1:

In a mathematics test the following marks were obtained by 40 students. Arrange these marks in a table using tally marks.

8	1	3	7	6	5	5	4	4	2
4	9	5	3	7	1	6	5	2	7
7	3	8	4	2	8	9	5	8	6
7	4	5	6	9	6	4	4	6	6

(a) Find how many students obtained marks equal to or more than 7?
(b) How many students obtained marks below 4?

Answer 1:

Marks	Tally Marks	No. of students
1	||	2
2	|||	3
3	|||	3
4									7
5								6
6									7
7							5
8							4
9	|||	3

(a) Twelve students
(b) Eight students

Question 2:

Following is the choice of sweets of 30 students of Class VI.

Ladoo, Barfi, Ladoo, jalebi, Ladoo, Rashulla, Jalebi, Ladoo, Barfi, Rasgulla, Ladoo, Jalebi, Jalebi, Rashulla, Ladoo, Rasgulla, Jalebi, Ladoo, Rasgulla, Ladoo, Ladoo, Barfi, Rasgulla, Rasgulla, Jalebi, Rasgulla, Ladoo, Rasgulla, Jalebi, Ladoo

(a) Arrange the names of sweets in a table using tally marks.
(b) Which sweet is preferred by most of the students?

Answer 2:

(a) Table using tally marks:

Sweets	Tally Marks	No. of students
Ladoo	||||| |||||		11
Barfi	||	3
Jalebi	||||| ||	7
Rasgulla	||||| ||||	9
		30

(b) Ladoo. Because 11 students prefer eat.

Question 3:

Catherine threw a dice 40 times and noted the number appearing each time as shown below:

1	3	5	6	6	3	5	4	1	6
2	5	3	4	6	1	5	5	6	1
1	2	2	3	5	2	4	5	5	6
5	1	6	2	3	5	2	4	1	5

Make a table and enter the data using tally marks. Find the number that appeared.
- (a) The minimum number of times.
- (b) The maximum number of times.
- (c) Find those numbers that appear an equal number of times.

Answer 3:

Numbers	Tally Marks	How many times?
1	𝍩 𝍩	7
2	𝍩 𝍩	6
3	𝍩	5
4	𝍩𝍩𝍩	4
5	𝍩 𝍩 𝍩	11
6	𝍩 𝍩	7

- (a) The minimum number of times = 4
- (b) The maximum number of times = 5
- (c) 1 and 6

Question 4:

Following pictograph shows the number of tractors in five villages:

Villages	Number of tractors	🚜 - 1 Tractor
Village A	🚜 🚜 🚜 🚜 🚜 🚜	
Village B	🚜 🚜 🚜 🚜 🚜	
Village C	🚜 🚜 🚜 🚜 🚜 🚜 🚜 🚜	
Village D	🚜 🚜 🚜	
Village E	🚜 🚜 🚜 🚜 🚜 🚜	

Observe the pictograph and answer the following questions:
- (i) Which village has the minimum number of tractors?
- (ii) Which village has the maximum number of tractors?
- (iii) How many more tractors village C has as compared to village B.
- (iv) What is the total number of tractors in all the five villages?

Answer 4:

(i) Village D (ii) Village C (iii) 3 (iv) 28

Question 5:

The number of girl students in each class of a co-educational middle school is depicted by the pictograph.

Classes	Number of girl students	- 4 Girls
I	
II	
III	
IV	
V	
VI	
VII	
VIII	

Observe this pictograph and answer the following questions:

(a) Which class has the minimum number of girl students?

(b) Is the number of girls in class VI less than the number of girls in class V?

(c) How many girls are there in class VII?

Answer 5:

(a) Class VIII   (b) No   (c) 3 × 4 = 12 girls

Question 6:

The sale of electric bulbs on different days of a week is shown below:

Days	Number of electric bulbs	- 2 Bulbs
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

Observe the pictograph and answer the following questions:

(a) How many bulbs were sold on Friday?

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

(c) On which of the days same number of bulbs were sold?

(d) On which of the days minimum number of bulbs were sold?

(e) If one big carton can hold 9 bulbs. How many cartons were needed in the given week?

Answer 6:

(a) Number of bulbs sold on Friday are 14.

(b) Maximum number of bulbs (18) were sold on Sunday.

(c) Same number of bulbs (8) were sold on Wednesday and Saturday.

(d) Then minimum number of bulbs (8) were sold on Wednesday and Saturday.

(e) The total number of bulbs sold in the given week were 86.
So the number of carton required to hold 86 bulb = 86/9 ≈10.
Hence, 10 cartons required to hold the bulbs.

Question 7:

In a village six fruit merchants sold the following number of fruit baskets in a particular season:

Name of fruit merchants	Number of fruit baskets	🗑 - 100 Fruit baskets
Rahim	🗑🗑🗑🗑	
Lakhanpal	🗑🗑🗑🗑🗑🗑	
Anwar	🗑🗑🗑🗑🗑🗑🗑	
Martin	🗑🗑🗑🗑🗑🗑🗑🗑🗑	
Ranjit Singh	🗑🗑🗑🗑🗑🗑🗑	
Joseph	🗑🗑🗑🗑🗑	

Observe this pictograph and answer the following questions:
(a) Which merchant sold the maximum number of baskets?
(b) How many fruit baskets were sold by Anwar?
(c) The merchants who have sold 600 or more number of baskets are planning to buy a godown for the next season. Can you name them?

Answer 7:

(a) Martin
(b) 7 × 100 = 700 fruit basket
(c) Anwar, Martin, Ranjit Singh