

Board –CBSE

 Class – 6<sup>th</sup>

Topic – Data Handling Ex:9.1

### Exercise - 9.1

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?

**Ans.** From the given data, we have the following table.

- (a) Number of students who obtained marks equal to or more than 7 = 5 + 4 + 3 = 12  
 (b) Number of students who obtained marks below 4 = 2 + 3 + 3 = 8.

2. 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, Ladoo, 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?

**Ans.** (a) We have the following table:

Sweets	Tally marks	Number of students
Ladoo		11
Barfi		3
Jalebi		7
Rasgulla		9
Total		30

- (b) Ladoo is preferred by most of the students, i.e., 11 students.

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.







**Ans.** We have the following table:

Number on the dice	Tally marks	Number of times
1		7
2		6
3		5
4		4
5		11
6		7

From the above table, we get

- (a) The number 4 appeared 4 times which is the minimum.
- (b) The number 5 appeared 11 times which is the maximum.
- (c) The numbers 1 and 6 appear the same number of times, i.e., 7.

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.


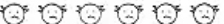


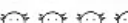




- (a) Which village has the minimum number of tractors?
- (b) Which village has the maximum number of tractors?
- (c) How many more tractors village C has as compared to village B?
- (d) What is the total number of tractors in all the five villages?

**Ans.** From the given pictograph, we have

- (a) Village D has the minimum number of tractors, i.e., 3.
- (b) Village C has the maximum number of tractors, i.e., 8.

- (c) Village C has 3 tractors more than that of village B.
- (d) Total number of tractors in all the villages is 28.

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?

Ans. (a) Class VIII has the minimum number of girl students









i.e  $1\frac{1}{2} \times 4 = 6$

(b) No, number of girls in Class VI =  $4 \times 4 = 16$  and number of girls in Class V =  $2 \times \frac{1}{2} \times 4 = 10$

So, the number of girl students in Class VI is not less than that of in Class V.

(c) Number of girls in Class VII =  $3 \times 4 = 12$

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		





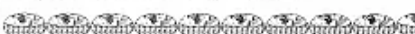
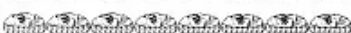

Observe the pictograph and answer the following questions:

- How many bulbs were sold on Friday?
- On which day were the maximum number of bulbs sold?
- On which of the days the same number of bulbs were sold?
- On which of the days the minimum number of bulbs were sold?
- If one big carton can hold 9 bulbs. How many cartons were needed in the given week?

- Ans.**
- Number of bulbs sold on Friday =  $7 \times 2 = 14$
  - On Sunday, the number of bulbs sold =  $9 \times 2 = 18$  which is the maximum in number.
  - On Wednesday and Saturday, the same number of bulbs were sold, i.e.,  $4 \times 2 = 8$
  - The minimum number of bulbs were sold on Wednesday and Saturday, i.e.,  $4 \times 2 = 8$
  - Total number of bulbs sold in a week = 43  
Number of cartons needed 5

$$= (43 \times 2) \div 9 = 86 \div 9 = 9\frac{5}{9} = 10 \text{ cartons.}$$

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:

- Which merchant sold the maximum number of baskets?
- How many fruit baskets were sold by Anwar?
- The merchants who have sold 600 or more baskets are planning to buy a godown for the next season. Can you name them?

- Ans.**
- Martin sold the maximum number of fruit baskets, i.e.,  $9\frac{1}{2} \times 100 = 950$
  - Number of fruit baskets sold by Anwar is  $7 \times 100 = 700$ .
  - Anwar, Martin and Ranjit Singh have sold 600 or more fruit baskets and planning to buy a godown.