

Ch-9. Data Handling

Ex. 9.1

Q1. 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?

Solution:

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

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

Q2. 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.

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

Solution.

- (a)

<i>Sweet</i>	<i>Tally Marks</i>	<i>Number of students</i>
Ladoo		11
Barfi		3
Jalebi		7
Rasgulla		9

(b) Ladoo is preferred by most of the students.

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

Q3. Make a table and enter the data using tally- marks. Find the number that appeared.

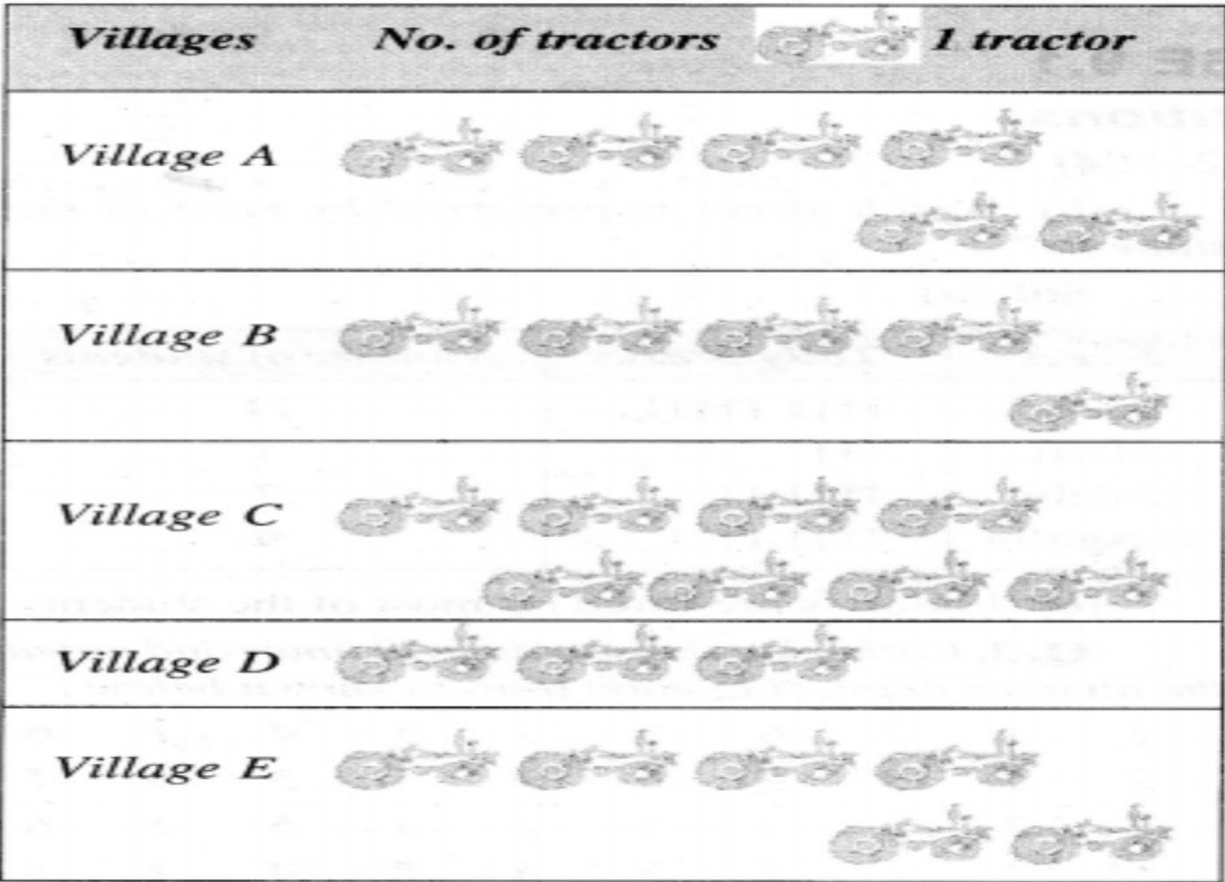
- (a) The minimum number of times.
 (b) The maximum number of times.
 (c) Find those numbers that appear an equal number of times.

Solution.

<i>Numbers</i>	<i>Tally Marks</i>	<i>Number of times</i>
1		7
2		6
3		5
4		4
5		11
6		7

- (a) The number that appeared the minimum number of times is 4.
 (b) The number that appeared the maximum number of times is 5.
 (c) The numbers that appeared an equal number of times are 1 and 6.

Q4. Following pictograph shows the number of tractors in five villages:



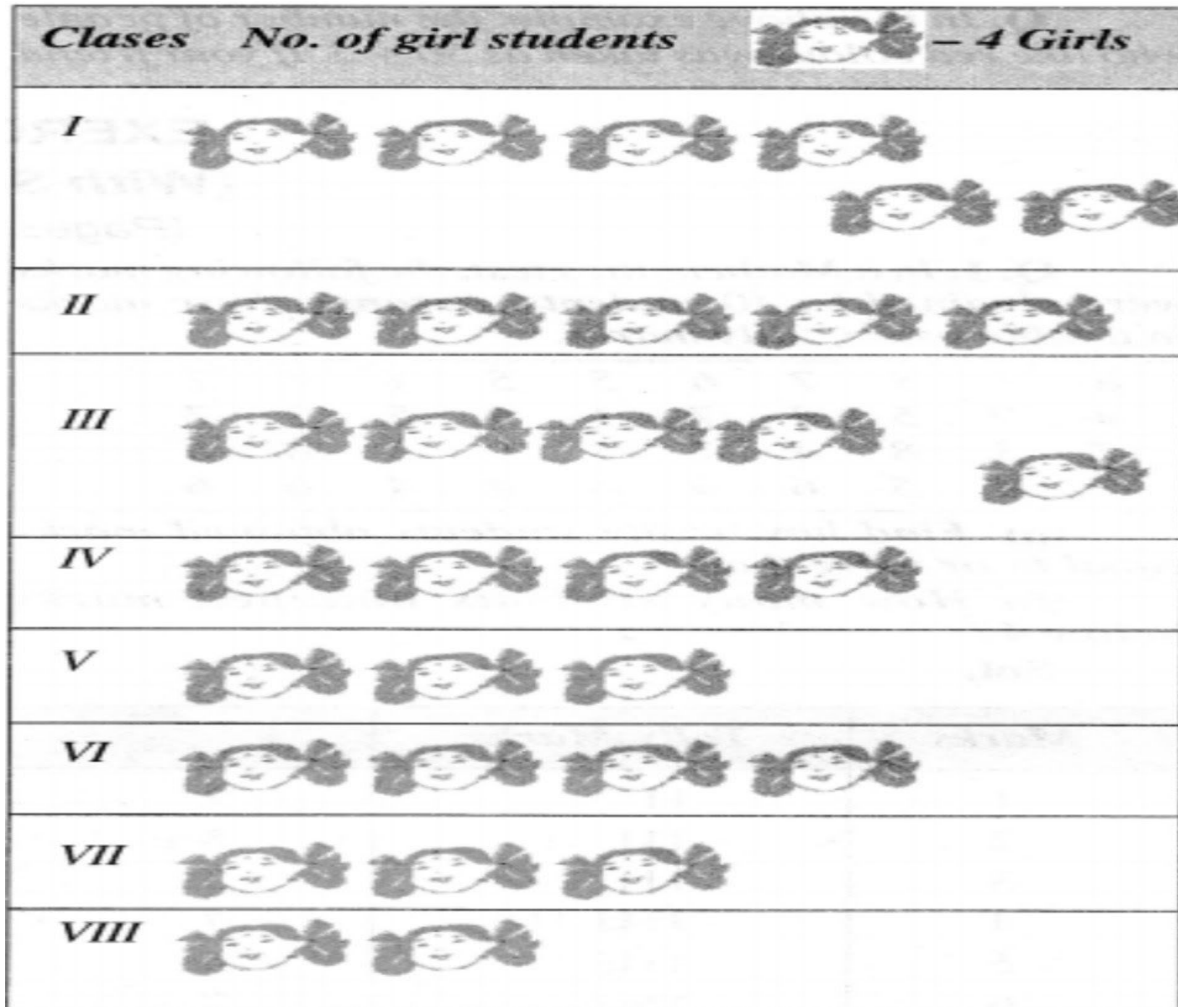
Observe the pictograph and answers the following questions:

- (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?

Solution.

- (i) Village D has the minimum number of tractors.
- (ii) Village C has the maximum number of tractors.
- (iii) Village C has $8 - 5 = 3$ more tractors as compared to village B.
- (iv) Total number of tractors in all the five villages = $6 + 5 + 8 + 3 + 6 = 28$.

Q5.The number of girl students in each class of a co-educational middle school is depicted by the pictograph:











Observe this pictograph and answer the following questions:

- Which class has the minimum number of girl students?
- Is the number of girls in class VI less than the number of girls in class V?
- How many girls are there in VII class?

Solution.

- Class VIII has the minimum no. of girl students.
- No! the number of girls in class VI is not less than the number of girls in class V.
- Number of girls in class VII – $3 \times 4 = 12$.

Q6.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		

What can we conclude from the said pictograph?

Observe the pictograph and answer the following questions:

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

Solution.

- Number of bulbs sold on Friday = $7 \times 2 = 14$.
- The maximum number of bulbs were sold on Sunday.
- On Wednesday and Saturday same number of bulbs were sold.
- On Wednesday and Saturday minimum number of bulbs were sold.
- Total number of bulbs sold in the week
 $= (6 + 8 + 4 + 5 + 7 + 4 + 9) \times 2$
 $= 43 \times 2 = 86$.

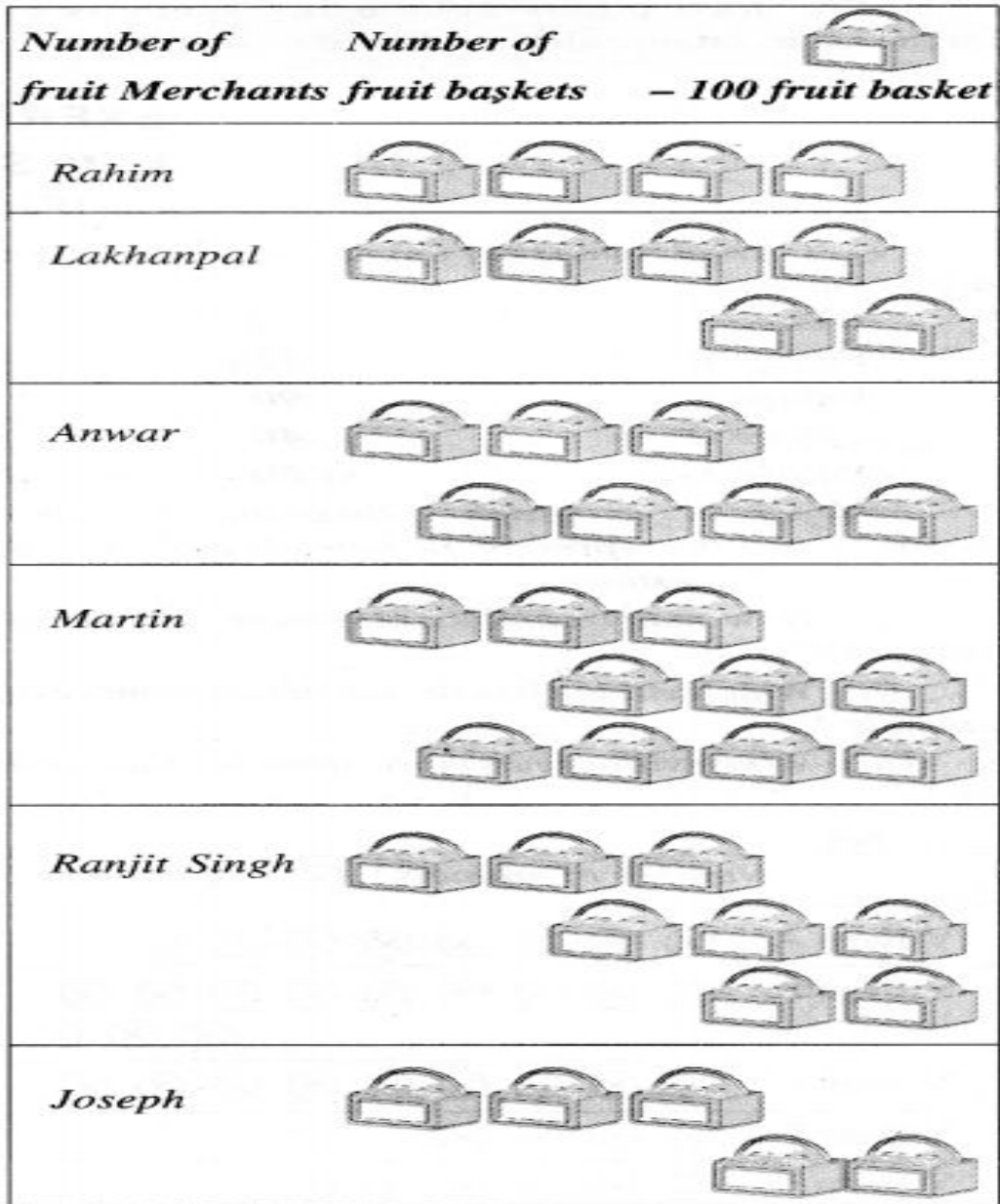
$$\therefore \text{Total sale of the week} \\ = ₹ 86 \times 10 = ₹ 860$$

$$(e) \quad \frac{86}{9} = 9\frac{5}{9} = 9 + \frac{5}{9}$$

$$\begin{array}{r} 9 \overline{) 86} \\ \underline{-81} \\ 5 \end{array}$$

Hence, 10 cartons were needed in the given week.

Q7. In a village six fruit merchants sold the following number of fruit baskets in a particular season:



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 number of baskets are planning to buy a godown for the next season. Can you name them?

Solution.

- Martin sold the maximum number of baskets.
- $7 \times 100 = 700$ fruit baskets were sold by Anwar.
- Yes! Anwar, Martin and Ranjit Singh are planning to buy a godown for the next season.