1) Information collected with a purpose is called <u>data</u>.

2) The data collected after arranging it is called an <u>organised data</u>.

3) Data can be organised by arranging it in <u>ascending</u> order or <u>descending</u> order or in the form of a <u>table</u>.

4) Data arranged in the form of a table is called a <u>frequency distribution</u> table.

5) We can represent the arranged data visually as a <u>Pictograph</u> or a <u>Bar Graph</u>.

6) Which type of graph is used when the data is large? <u>Bar Graph</u>

7) A Bar Graph is drawn using  bars of <u>uniform</u> width.

8) If a scale shows 1unit = 10 vehicles , then a bar of height 6 units represents <u>60</u> vehicles.

9) <u>Tally marks</u> make the data easy to count.

10) Representation of data in the form of picture is called <u>pictograph</u>.

11) Which tally mark represents the number 8?

   (a) |||| ||||

   (b) ℕ ℕ

   (c) ℍℍ ||

   (d) ℍℍ |||

12) A symbol is used to represent 50 flowers. <u>12</u> symbols are to be drawn to show 600 flowers.

13) In a bar graph, space between rectangles is always <u>equal</u>.

14) When data visualisations such as bar graphs are presented with more extensive artistic and visual imagery, they are called <u>infographics.</u>

15) Rakesh is playing with a dice. He threw the dice 40 times and noted the

outcomes as follows.
1, 2, 1, 5, 3, 5, 5, 3, 2, 2, 1, 6, 6, 6, 4, 6, 3, 5, 2, 3, 3, 5, 4, 1, 5, 5, 2, 2, 4, 5, 5,

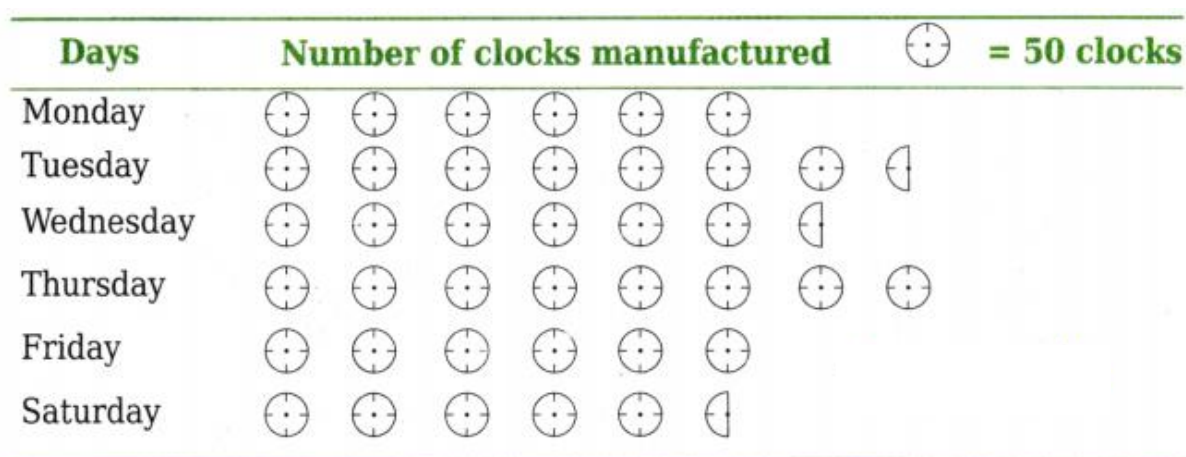2, 4, 1, 6, 6, 1, 5, 6, 1.
Prepare a table using tally marks.

16) The following data represents the weekly wages (in ₹) of 16 workers in a

factory. Arrange them in ascending or descending order and answer the

following questions.
850, 800, 750, 900, 750, 800, 950, 900, 950, 750, 800, 850, 800, 850, 900, 950.
(a) How many workers are getting less than ₹ 850 per week?
(b) How many workers are getting more than ₹ 800 per week?

17) The number of clocks manufactured by a factory in a particular week, is

shown below.

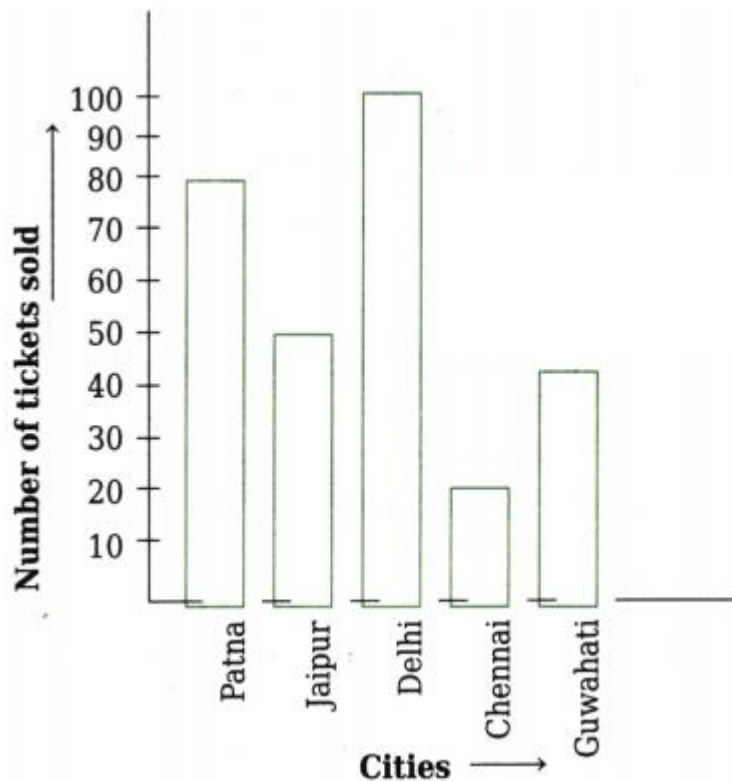| Days | Number of clocks manufactured | ⊕ = 50 clocks |
| --- | --- | --- |
| Monday | ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ | |
| Tuesday | ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ◖ | |
| Wednesday | ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ◖ | |
| Thursday | ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ | |
| Friday | ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ | |
| Saturday | ⊕ ⊕ ⊕ ⊕ ⊕ ◖ | |

Observe the above pictograph and answer the following questions,
(a) On which day were the least number of clocks manufactured?
(b) On which day were the maximum number of clocks manufactured in the
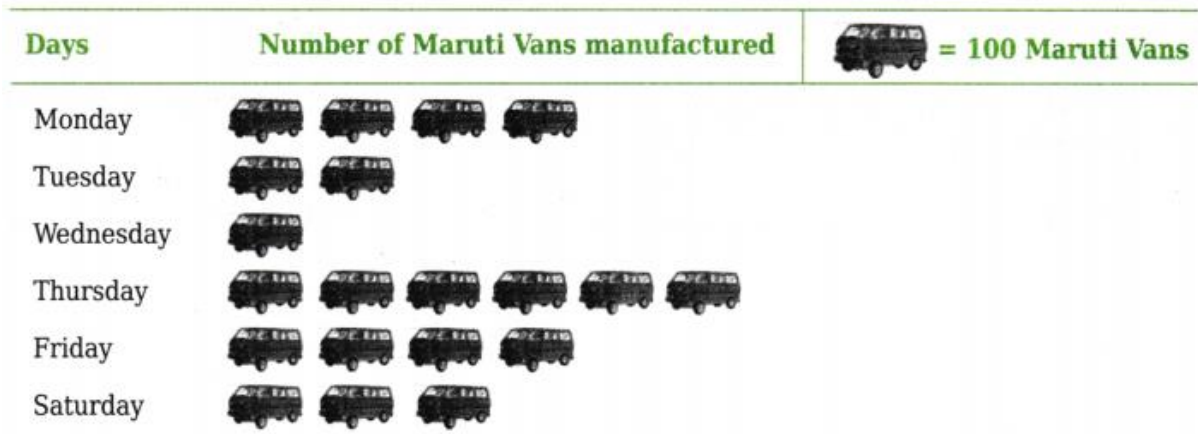    particular week and how many?
(c) How many clocks were manufactured on Wednesday?

18) The following graph gives the information about the number of railway
tickets sold for different cities on a railway ticket counter between 6:00 am to
10:00 am. Read the bar graph and answer the following questions.

(a) How many tickets were sold in all?

(b) For which city were the maximum number of tickets sold?

c) For which city were the minimum number of tickets sold?

(d) Name the cities for which the number of tickets sold is more than 20.

(e) Number of tickets sold for Delhi and Jaipur together exceeds the total

   number of tickets sold for Patna and Chennai by _____.

19) Mr. Suzuki is the chief engineer of a Maruti Van manufacturing unit set up in Delhi. The following pictograph shows the number of Maruti Van manufactured by Maruti Suzuki's team during a week. Read the table and answer the questions that follow.



(i) On which day were the least number of Maruti Vans manufactured?

(ii) Find the number of Maruti Vans manufactured on Wednesday.
(iii) On which day were the maximum number of Maruti Vans manufactured?
(iv) Find out the total number of Maruti Vans manufactured in the particular week?
(v) On which days were the same number of Maruti Vans manufactured?

20) The modes of transport used by different students of a school is given.

Draw a pictograph for the data.

| Transport | Bus | Cycle | Scooter | Train | Autorickshaw | Walking |
|---|---|---|---|---|---|---|
| No.of students | 20 | 10 | 8 | 6 | 12 | 16 |

22) In a school there are five sections of Class-7. The number of students in

Each section is given below. Represent the data as a bar graph.

| Sections | A | B | C | D | E |
|---|---|---|---|---|---|
| No.of students | 40 | 44 | 42 | 36 | 32 |

23) The data collected in the beginning which is not arranged is called <u>raw</u> or

<u>ungrouped</u> data.

24) In a pictograph one symbol represents 5 persons , then how many symbols

Should be drawn to show 20 persons?

## Answers

11) d      16) a) 7  b) 9     17) a) Saturday   b) Thursday – 400  c) 325

18) a) 295  b) Delhi  c) Chennai  d) Patna , Jaipur ,Delhi , Guwahati  e) 50

19) (i) Wednesday   (ii) 100   (iii) Thursday   (iv) 2000

(v) Monday & Friday

24) 4