

CHAPTER 20

CONSTRUCTING AND INTERPRETING BAR GRAPH

More Questions for Practice

1. Aruna wanted to find out about the type of pets and the number of students who have pets. She found that 26 of her classmates have pets. Given below is the information she got:

rabbit, dog, dog, cat, cat, parrot, rabbit
dog, dog, rabbit, parrot, pigeon, pigeon
parrot, cat, cat, dog, cat, rabbit, pigeon
dog, cat, dog, rabbit, parrot, pigeon

- (a) Prepare a frequency table, using tally marks, for the above data.
(b) Construct a bar graph corresponding to the frequency table.
2. The music group of Class X of Modern School performed a musical programme. The students of Class XI were asked to grade the programme on a scale 1-5, where
- (i) 1 would denote excellent performance,
 - (ii) 2 good performance,
 - (iii) 3 an ordinary performance,
 - (iv) 4 not good performance, and
 - (v) 5 very poor show.

The grading of 50 students of Class X is as given below:

5, 1, 2, 3, 4, 5, 1, 2, 2, 3, 2, 1, 4, 5, 3, 5, 3, 2, 1, 3, 3, 2, 2, 3, 1,
1, 1, 2, 2, 5, 3, 4, 3, 1, 2, 2, 2, 3, 1, 2, 1, 5, 4, 3, 2, 1, 3, 2, 4, 3

Prepare a frequency table, using tally marks and a corresponding bar graph.

With the help of the bar graph, answer the following questions:

- (a) How many students are rated as excellent performers?
(b) How many students are rated as poor performers?
3. Following are the number of members in 20 families in a village:

5, 9, 4, 8, 8, 6, 7, 7, 6, 6, 6, 2, 8, 5, 7, 5, 8, 9, 7, 6

Prepare a frequency distribution table for the data and answer the following questions:

- (a) What is the smallest family size?
(b) How many families are there of the smallest size?
(c) What is the most common family size?
(d) What is the biggest family size?
(e) How many families are there of the biggest size?
(f) Construct a bar graph of this data.

4. The given bar graph shows the number of families of a certain locality with various numbers of letters received by those families in a certain month, as shown in a survey by local post-office. Read the bar graph and answer the questions that follow.

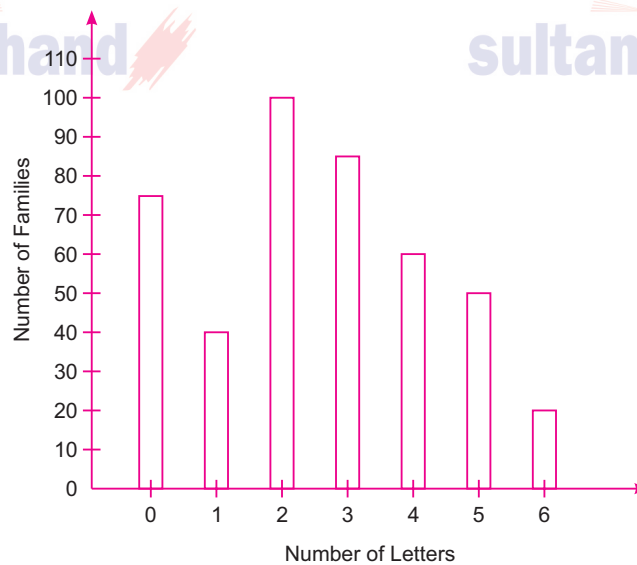


Fig. 20.1

- (a) How many families were covered in the survey?
 (b) What was the average number of letters received per family in that month?

ANSWERS

1.

<i>Pet</i>	<i>Tally</i>	<i>Frequency</i>
cat	I	6
dog	II	7
parrot		4
pigeon		4
rabbit		5

2. (a) 11 students (b) 6 students.
 3. (a) 2 (b) one (c) 6 (d) 9 (e) two.
 4. (a) 430 (b) 3.