

EXERCISE 9.4

PAGE NO: 202

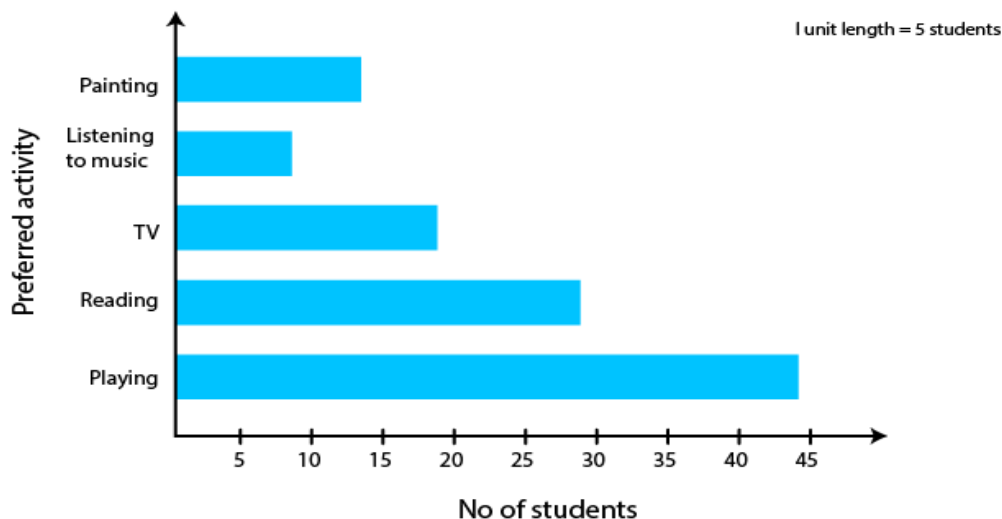
1. A survey of 120 school students was done to find which activity they prefer to do in their free time.

Preferred activity	Number of Students
Playing	45
Reading story books	30
Watching T.V	20
Listening to music	10
Painting	15

Draw a bar graph to illustrate the above data taking scale of 1 unit length = 5 students. Which activity is preferred by most of the students other than playing?

Solutions:

By taking a scale of 1 unit length = 5 students, bar graph is shown below considering the above data



Reading story books is the activity preferred by most of the students other than playing

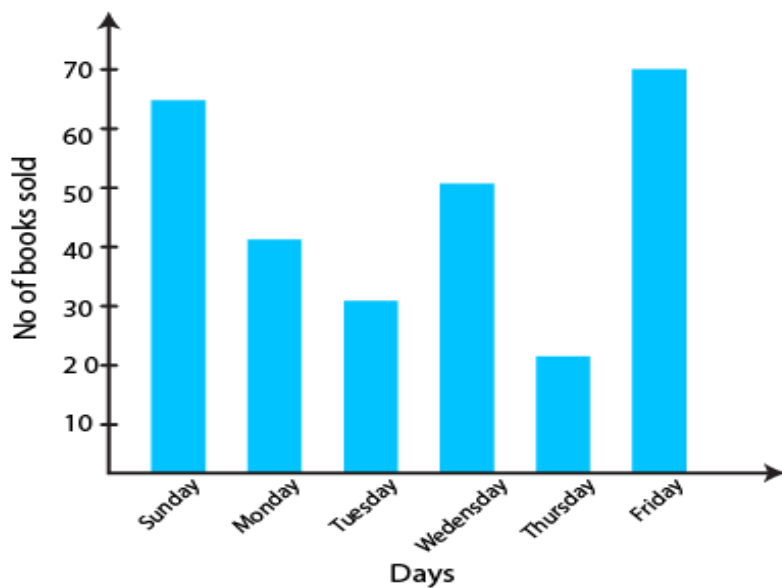
2. The number of Mathematics books sold by a shopkeeper on six consecutive days is shown below:

Days	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Number of books sold	65	40	30	50	20	70

Draw a bar graph to represent the above information choosing the scale of your choice.

Solutions:

By taking a scale of 1 unit length = 10 books we may draw a bar graph of above data as follows



3. Following table shows the number of bicycles manufactured in a factory during the years 1998 to 2002. Illustrate this data using a bar graph. Choose a scale of your choice

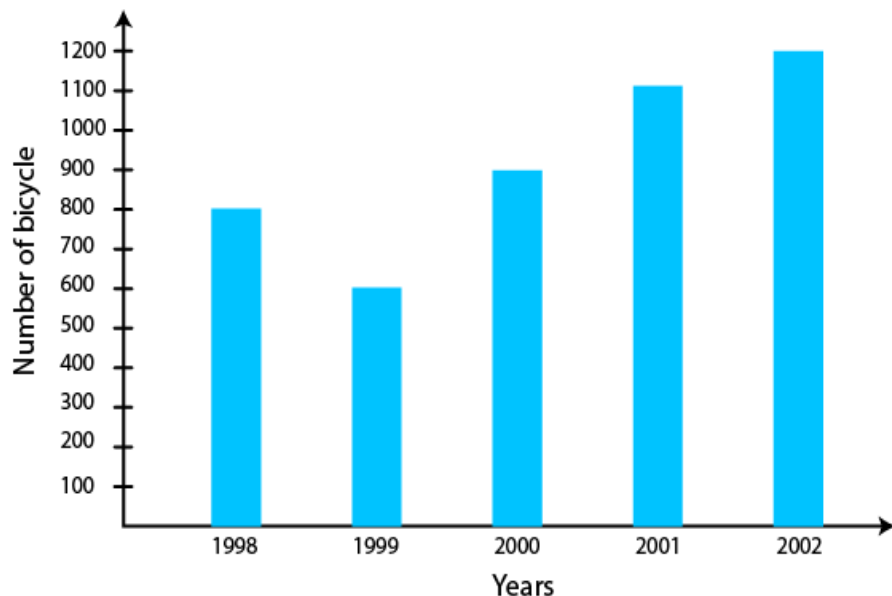
Year	Number of bicycles manufactured
1998	800
1999	600
2000	900
2001	1100
2002	1200

(a) In which year were the maximum number of bicycles manufactured?

(b) In which year were the minimum number of bicycles manufactured?

Solutions:

By taking a scale of 1 unit length = 100 bicycles we may draw a bar graph of above data as follows



- (a) In the year 2002, maximum number of bicycles were manufactured i.e 1200 bicycles
(b) In the year 1999, minimum number of bicycles were manufactured i.e 600 bicycles

4. Number of persons in various age groups in a town is given in the following table.

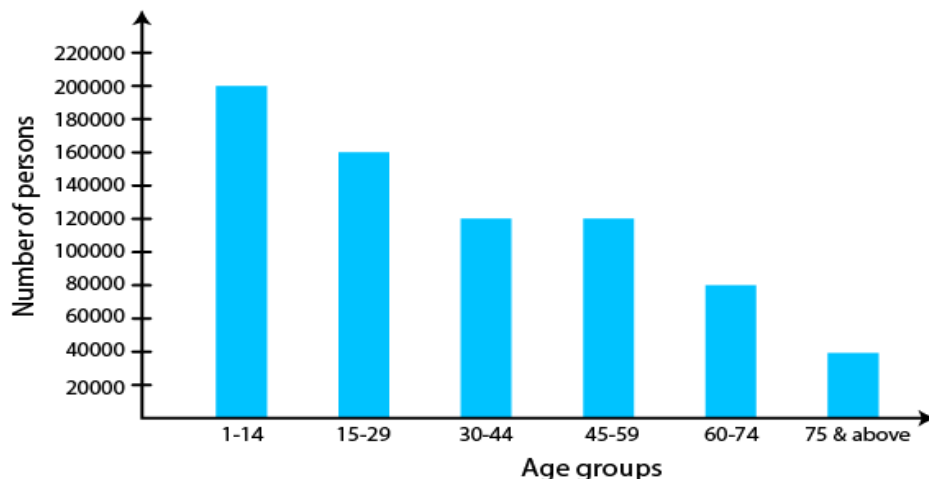
Age group (in years)	1-14	15-29	30-44	45-59	60-74	75 and above
Number of persons	2 lakhs	1 lakh 60 thousands	1 lakh 20 thousands	1 lakh 20 thousands	80 thousands	40 thousands

Draw a bar graph to represent the above information and answer the following questions. (take 1 unit length = 20 thousands)

- (a) Which two age groups have same population?
(b) All persons in the age group of 60 and above are called senior citizens. How many senior citizens are there in the town?

Solutions:

By taking a scale of 1 unit length = 20 thousands we may draw a bar graph of above data as follows



- (a) The two age groups which have same population are 30-44 and 45-59
- (b) Senior citizens are the persons between the age group either from 60-74 or from 75 above. Therefore
Number of senior citizens in the town = $80000 + 40000$
= 1 lakh 20 thousand

Hence, the number of senior citizens in the town are 1 lakh 20 thousand

